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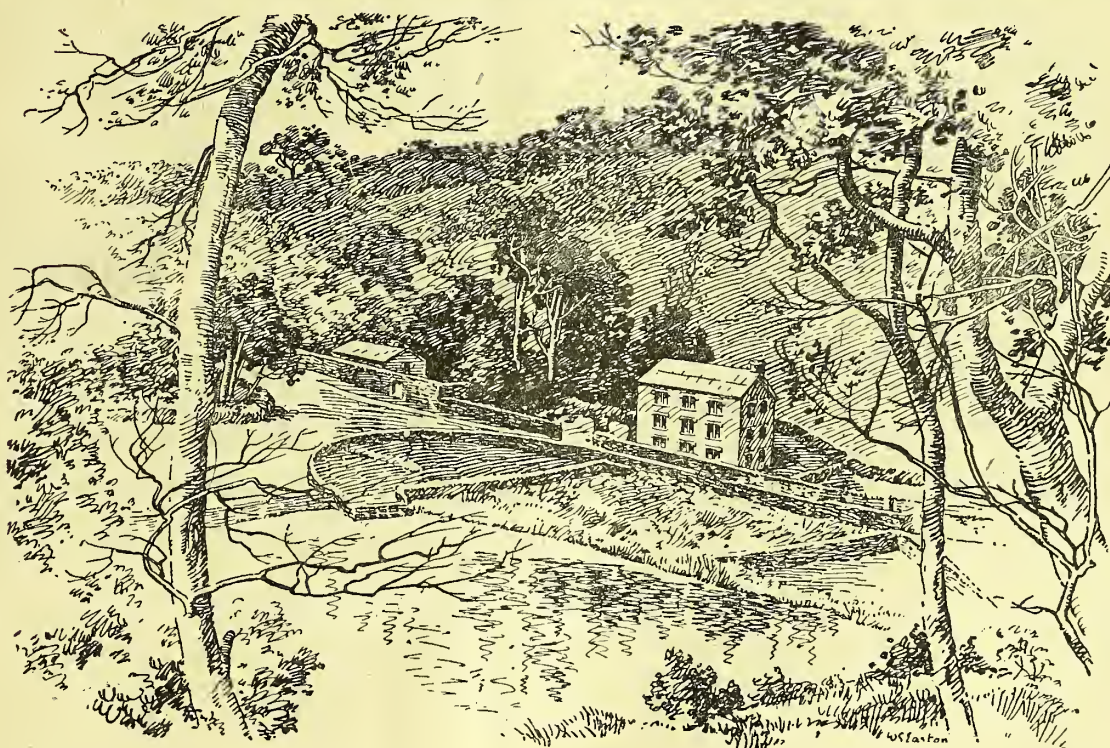
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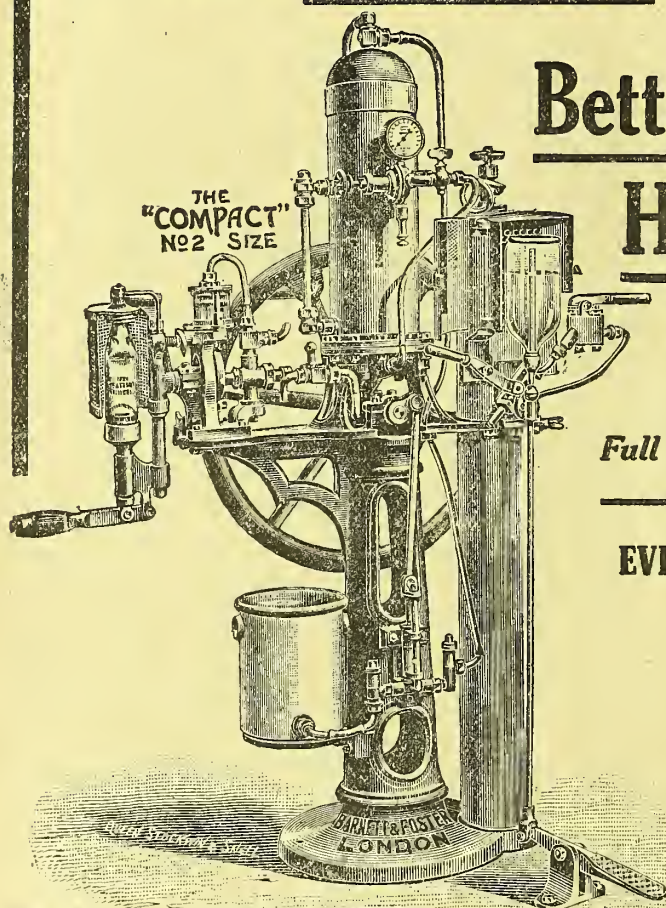
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# INDEX TO ADVERTISERS IN THIS ISSUE.

The Arabic numerals (x to 32) in this Index refer to Advertisements in the front of literary pages. The Advertisements following the literary pages are numbered in Roman numerals (i to xxviii).

For more complete Buyers' Guide see "The Chemist & Druggist" Diary, 1918.

ABRATON, Ld. Sparklets .....	27	FULFORD, C. R., Ld. Medicinal Props. Toilet Articles ..	4	RAIMES & CO., Drugs .....	xiii
ALCOCK MANUFACTURING CO., Plasters, &c. ....	xxvii	GARDNER, W., & SONS (Gloucester), Ld., Machinery ..	24	RAJEN PERUMERY CO., Toilet Specialties ..	14
ALLIANCE DRUG & CHEMICAL CO., Drugs, Chemicals ..	xi	GERAUDEL, A., Pastilles .....	28	RANSON, W., & SON, Ld. Extracts, Essential Oils ..	Cover
AMERICAN COMMERCE CO., Ld., Chemicals .....	14	GIBBINS, R., & CO., Tablets .....	Col. Supp.	RANFORD, J. E., Patent Agent .....	xxii
AMSTERDAM QUININE WORKS, Quinine .....	vi	GIGNOUX FRERES & CO., French Specialties ..	vi	RED BAND CHEMICAL CO., Packed Goods .....	6
ANGLO-FRENCH DRUG CO., Ld., French Props ..	iii	GOODALL, BACKHOUSE & CO., Packed Goods, Herbs ..	Cover	REDDGRAVE, BUTLER & CO., Liquid Paraffin ..	Cover
ARMOUR & CO., Ld., Bennett Substitute .....	xxviii	GOWER, JOHN, Books (Secondhand, &c.) .....	Col. Supp.	REYNOLDS & BRANSON, Ld., Scientific Apparatus, Surgical Instruments ..	Text
AYRTON, SAUNDERS & CO., Ld., Wholesale Druggists ..	15	GRAESSER, R., Ld., Carbolic Acid, &c. ....	Col. Supp.	RIGOLLOP, Mustard Leaves .....	8
BAILLY, W. H., & SON, Elastic Hosiery, Suspensories, Trusses ..	xvii	GREENE, R. W., & CO., Chemicals (Fine & Technical) ..	6, 7	ROBERTS, Ld., Toilet Specialties .....	24
BARKER, REGINALD W., Patent Agent .....	Text	HARKER, C. R., STAGG & MORGAN, Ld., Hair Dyes ..	10	ROBERTS & CO., Continental Proprietaries ..	vi
BARNETT & FOSTER, Aerated Water Machinery, Soluble Essences ..	2	HARLEY, T., Rat Poison, Proprietary Salt .....	28, xix	ROBINSON B. & CO., Concentrated Waters ..	29
BATH & WEST OF ENGLAND COLLEGE .....	12	HART, BRITAIN, J., Ld., Toilet Articles .....	22	ROBINSON & SONS, Ld., Carbons, Surgical Dressings ..	1
BECKER, SHILLAN & CO., Chemicals .....	xii	HASKINS, SAM'L, & BROS., Ld., Window Stands ..	13	RONOLEKE, Hot Water Bottles .....	xxv
BERHAM, THOMAS, Pills .....	xi	HENRY, T. & W., Calined Magnesia .....	xiv	ROSENBLATT, SAMSON, Drugs .....	xx
BRETHAM, M., & SON, Toilet Props .....	14	HEWLETT, C. J., & SON, Ld., Pharmaceutical Props ..	26	RUDD, F. M., Peppermint Oil .....	xx
BEGHE & CHIAFFETTA, Chemicals .....	xvi	HIND & LUND, Ld., Grinders, Sifters, and Mixers ..	30	RUDECK & CO., Chemists' Shop Findings ..	Col. Supp.
BENGER'S FOOD, Ld., Foods .....	26	HOLLIDAY, F. B., & CO., Fine Chemicals .....	xvi	SANITAS CO., Ld., Disinfectants .....	Text
BENGOL TRADING CO., INC., Salicylates .....	29	HUGHES, C. L., American Drugs, Chemicals, &c. ....	vi	SHADEINE CO., Hair Dyes .....	xxii
BERDOE & FISH, Chemists' Valuers, &c. ....	Col. Supp.	ISAACS, L., Cod Liver Bottles .....	Col. Supp.	SIM, Ld., Ampoule Flies .....	xiv
BLADE SHARPENING CO., Ld. ....	xxii	JOB BROS., Col. Glass Oil, Newfoundland ..	23	SMITH, J. H., & CO., Fly-Catchers .....	xxiii
BLADEN, VICTOR & CO., Chemicals .....	xvii	JOHNSONS, A., & CO. (London), Ld., Chemicals ..	ii	SMITH, MAURICE, & CO., Proprietaries ..	xvi
BLYTHE, W., & CO., Ld., Epsom Salts, Zinc Sulphate ..	23	JOINTMENT CO., Proprietary .....	xx	SMITH, T. & H., Ld., Alkaloids, Resins & Resinoids ..	viii
BOHM, F., Ld., Chemicals .....	23	JOSEPHS, PHILIP, & SONS, Ld., Shopfittings ..	Col. Supp.	SOLAZZI, L., Medicines .....	xxvii
BOWLEY, S., & SON, Parasiticides .....	xxiii	KIDSTON, W. M., & CO., Gums, Petroleum Jellies ..	22	SOLERNOU, VIUDA DE JOSE, Spanish Agencies ..	xxvi
BRADFORD WOOL EXTRACTION CO., Ld., Phenacetin ..	xxii	KIRBY, H. & T., & CO., Ld., Tablets .....	xvii	SOLPORT BROS., Ld., Corn Plasters, Puffs, Loofahs ..	18
BRASSER, H., Sundries .....	xxii	LANG, ULES, & SON, Medical & Chemical Glassware ..	xvii	SPATULA PUBLISHING CO., Books .....	13
BRIZET, A., & CO., Chemicals .....	xxii	LANKESTER, WICKSTEAD & CO., Ld., Tartaric Acid ..	ii	SPENCER, ISAAC, & CO. (Aberdeen), Ld., Cod Liver Oil ..	9
BRUNNER, MOND & CO., Ld., Alkalies .....	1	LAZARD-GODCHAUX CO., Ld., Chemicals, Dyestuffs ..	xvii	SPRING & CO., Ld., Honey .....	8
BRITISH CHEMICAL TRADES ASSOCIATION ..	xv	LEICESTER RUBBER CO. ....	xxvii	STEAD & CO., Photographs .....	Col. Supp.
BURGL, WARREN & RIDGLEY, Ld. ....	xxv	LENNON, Ld., South African Agencies ..	iv	STERN, Ld., Petroleum Jelly .....	10
BURNSIDE & CO., Encapsulating Oil .....	17	LEVERMORE, A., & CO., Ld., Chalk (Precipitated) ..	xxii	STIPENDIUM STOPPER CO., Boxes, Stoppers ..	20
BURROUGH, J., Ld., Absorbent Alcohol, S.V.R., S.V.M. Text	81	LINTON, HUBBARD & ANDREW, Saccharine ..	xxiii	SWISS BANK CORPORATION, Mercantile Banking ..	xiv
BURROUGHS WELLCOME & CO., 'Tabloid' Props ..	21	LIVER RAZOR CO., Safety Razors .....	xxii	THAMES CHEMICAL CO., Ld., Wrinkle Remover ..	xxii
BURTON, BAKER & CO., "Glacialine" Preservative ..	99	LOFTHOUSE & SALTNER, Ld., Foods, Asthma Remedies ..	28	THOMPSON & CAPPER, Ld., Tonic Preparation ..	30
BUSH, W. J., & CO., Ld., Chemicals, Essences, Perfumery	19	LONABARC TRADING CO., Essential Oils .....	10	THORNLEY, S., Ld., Methylated Spirit .....	22
CADBURY BROS., Ld., Cocoa .....	Cover	MCOTTER, S. G., & CO., American Chemicals, &c. ....	xvi	TIDMAN & SON, Ld., Sea Salt .....	10
CHATBLAIN, J. L., French Medicinal Proprietaries ..	ix	M'GLASHAN, D., Fruit Drink .....	Col. Supp.	TIMPSON, JOHN, & CO., Ld., Ligatures ..	xxvi
CHESSTER, A. D., & CO., Ld., Chemicals .....	xiv	MADOBEY, H., Chemicals .....	xiv	TITTERTON & HOWARD, Brushware (all kinds) ..	20
CHRISTOPHERSON, C., & CO., Ld., Drugs .....	xix	MALLINCKRODT CHEMICAL WORKS (Canada), Ld. ....	xii	TOLKOWSKY, S., Russian Crude Drugs, &c. ....	xxii
CHRISTY, T., & CO., Toilet Articles, &c. ....	xxii	MANABRE SACCHARINE CO., Ld., Glucose .....	29	TOMLINSON & HAYWARD, Ld., Weed-killers ..	Text
CLEMENT & JOHNSON, Surgical Dressings ..	xxi	MANGOLD, C., & CO., Chlorates and Perchlorates ..	x	TOMLINSON, THOS., & SON, Chemists' Valuers ..	Col. Supp.
COAL-BY-PRODUCTS CO., Vaporisers .....	27	MANIFOLD SIGN CO., Display Signs .....	13	TOOGOOD, W., Ld., Druggists' Sundries ..	16
CONNELL, A., & CO., Chemicals .....	ii	MARTIN, W., Photographs .....	Col. Supp.	TOOMBS, ARTHUR, & CO., Bottle Caps ..	20
COOPER, SON & CO., Ld., Cachets .....	xxii	MATTHEWS, HAROLD E., & CO., Proprietary ..	xix	TYRELL, CHAS. A., Syringe .....	xx
COSH, STRODE, & PENFOLD, Toilet Specialties ..	20	MAW, S., SON & SONS, Ld., Druggists' Sundries, &c. ....	ii	UEYAMAYEHI INSECTICIDE PRODUCING CO. ....	xxiii
DAVENPORT, J. T., Ld., Chlorodyne .....	xviii	MAW & BAKER, Ld., Chemicals .....	Cover	VAN HORN & SAWFELL, Surgical Ligatures ..	xxii
DAVIS, W., Window Display Stands .....	24	MEYER, W. H., Saccharin Tablets .....	Col. Supp.	VENO DRUG CO., Ld., Proprietaries .....	3
DE ST. DALMAS, A., & CO., Medical Plasters ..	xxiv	MILLAR, A., & CO., Ld., Orange Quinine Wine ..	28	VISCOSE DEVELOPMENT CO., Ld., Self-fixing Caps ..	20
DENNIS, J. H., & CO., Ld., Copper Sulphate ..	xx	MOND NICKEL CO., Copper Sulphate .....	vii	VITAMOGEN, Ld., Food Product .....	27
EDGE, W., & SONS, Ld., Cleansers .....	14	MONSANTO CHEMICAL WORKS, Glycophosphates ..	xii	WARD & GOLDSTONE, Ld., Electrical Novelties ..	12
EMPIRE PERFUMERY CO., Nail Stone .....	16	NEUHAFER & LEVI, Brushes .....	xxvi	WARRICK BROS., Ld., Cachets, Capsules, Lozenges ..	32
ERASMIC CO., Ld., Perfumery, Toilet Soaps ..	18	NEWBERRY, F., & SONS, Ld., Druggists' Sundries ..	24	WARRINGTON CHEM., & DRUG CO., Salicylic Acid ..	ii
EVANS SONS, LSCHEER & WEBB, Ld., Chemicals ..	9, Cover, v	NEW WAVE CURL CO., Toilet .....	xxvi	WASHINGTON CHEMICAL CO., Ld., Magnesia & Salts ..	xiv
FARROW & CO., Medical Glassware .....	8	NIEUWHOF, SURIE & CO., Ld., Casein .....	26	WATFORD MANFG. CO., Soap Cakes .....	27
FAULDING, F. H., & CO., Emulsion Soaps .....	xx	NICHOLS CHEMICAL CO., Ld., Precipitated Chalk ..	vi	WATSON & CO., Photographs .....	Col. Supp.
FELLOWS' MEDICAL MFG. CO., Medicinal Syrops ..	iv	NORWICH CREPE CO. (1856), Ld., Crepe Bandages ..	xxvii	WEST-END PHARMACY SUPPLY, Cachets, Capsules ..	xxii
FENNINGS, A., Fever Powders .....	Cover	ODOI CHEMICAL WORKS, Dentifrices .....	18	WESTERN DENTAL MFG. CO., Ld., Sotol ..	12
FINK, F., & CO., Gums .....	xxii	PAGE, CHAS., & CO., Chemicals .....	xvii	WESTMINSTER COLLEGE OF PHARMACY ..	12
FLETCHER, FLETCHER & CO., Ld., Lignors ..	Text	PAPIER POUDE, Ld., Toilet Preparations ..	21	WHITEN & SONS, Ld., Emetine Salts, Quinine, &c. ....	vi
FLOREY, HARTLEY, Chemicals .....	x	PEARS, A. & F., Ld., Toilet Soaps .....	5	WHITAKER & CO., Hat Dyes .....	22
FORSYTH, E., & SON, Ld., Soap & Chemical Plant ..	30	PELLIOT, HENRI, & CIE, Chemicals .....	xiv	WHITE, TOMKINS & COURAGE, Ld., Hop Oil ..	17
FRANK FOOD CO., Ld., Foods .....	26	PENICK, S. B., & CO., American Crude Drugs ..	xxiii	WIGGLESWORTH, Ld., Compressed Tablets ..	Cover
FREEMAN BROS., Dentistry .....	24	PETRI BROS., Chemicals .....	xiv	WILLIAMS BROS. CO., Antine Dyes, Chemicals ..	25
FRIEDMANN, V., Chemicals .....	11	PIERNO, V. A., Chemicals .....	x	WILLOWS, FRANCIS, BUTLER & THOMPSON, Ld., Drugs, Grinders, Disinfectants, Foods ..	ix
FUEBET BROS., Ld., Chemicals (Pure and Technical) ..	x	PICKARD, IVE & HANKIN, Ld., Acetyl-Salicylic Acid ..	9	ZEAL, G. H., Clinical Thermometers .....	17
		PICKERING, ALEX. S., Quinine .....	xix		
		POULENG FRERES, Stovaine .....	17		



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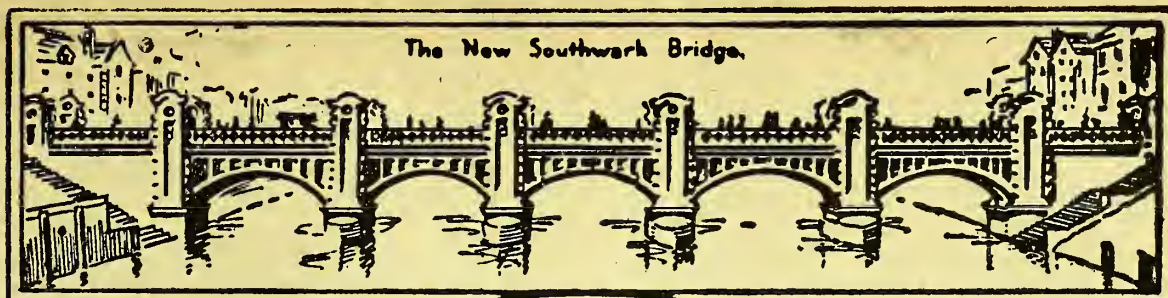
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Cinchonidine and Salts  
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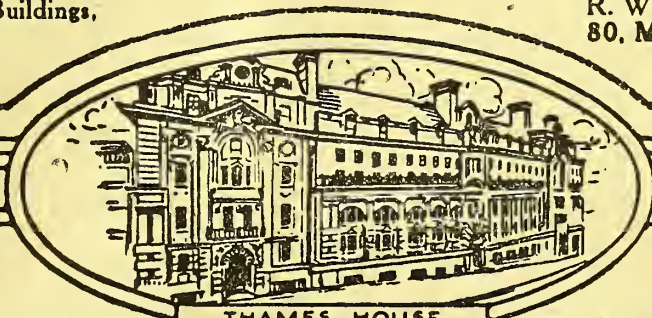
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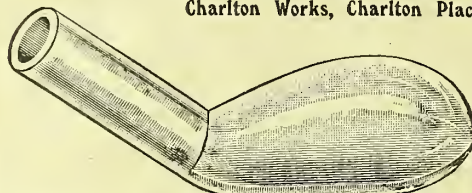




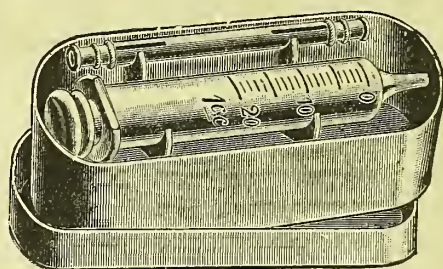
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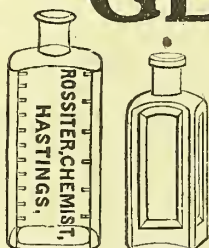


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# Maw's Page.

NUMBER 335.

MARCH 16, 1918.

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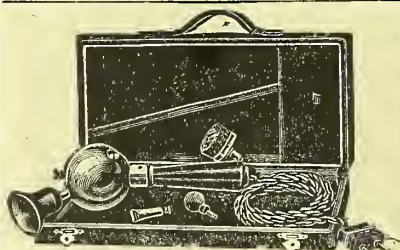
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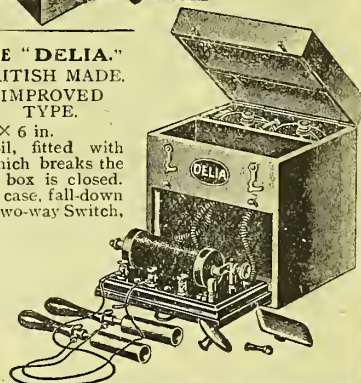
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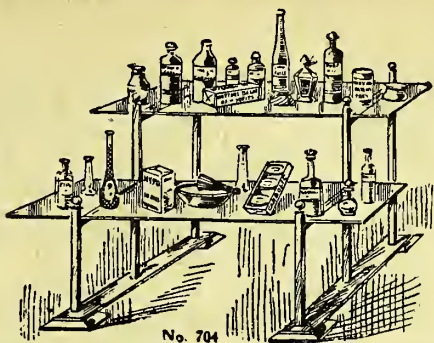
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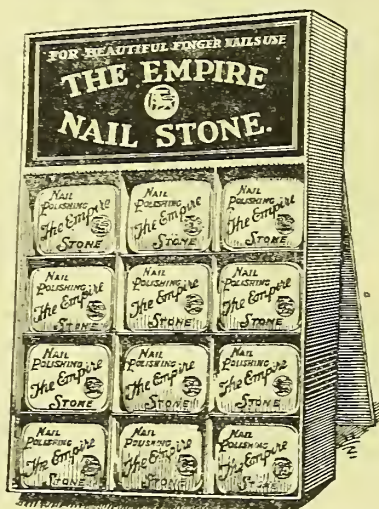


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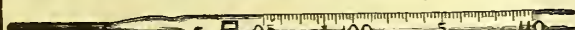
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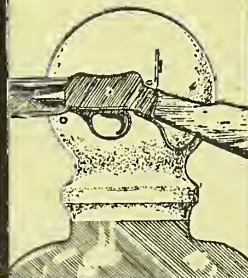
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MARKS

**BRITISH MADE**  
**GOODS**

OUR  
**PAPIER POUDRÉ**  
has stood the test of  
**PURITY**  
for  
**25 YEARS**

*Beware of Spurious Imitations.*

REGISTERED



PAPIER POUDRÉ, & LTD.

20 Baker St., Portman Sq., London, W.,  
and in Paris.

NOTE OUR TRADE MARKS, AS ABOVE.

## PAPIER POUDRÉ.

IN WHITE, ROSE, or RACHEL TINTS, 4½d., 6d., and 1/- size Booklets.  
2/6, 3/9 and 7/6 per doz. net respectively.

SUNBURN TINT, 6d. and 1/- sizes only, 3/9 and 7/6 per dozen net.

NEAT 1/- MIRROR CASES, containing pads of PAPIER POUDRÉ, 7/6 per doz.

REFILLS to these MIRROR CASES ... .. 2/-

SMALL SIZE, DOUBLE LEAVES, for purse or glove ... .. 1/3

6d. SHAVING PADS (unscented, white only)... .. 3/9

## THE ALL-BRITISH "POPPCEA" PREPARATIONS.



ROUGE is most popular. It is put up in most convenient form, and is Nature's Understudy.

IN PADS, 6d. and 1/- each. IN MIRROR CASES, 1/- each, 8/- per doz.

4/- and 8/- per doz. respectively.

Refills, 2/8 per doz.

"POPPCEA" MASSOLINE SKIN FOOD, in Jars 9/6 and 28/- per dozen.

"POPPCEA" CRÈME POUDRÉ, in Bottles, 9/- and 26/- per dozen.

**PAPIER POUDRÉ, Ltd., 20 BAKER STREET, LONDON, W.1.**



# METHYLATED SPIRIT

## OILS AND CHEMICALS.

Buy from one of the Oldest Houses in the Trade.  
Write for Prices. ESTABLISHED 1794.

**SAMUEL THORNLEY, LTD., BIRMINGHAM**

# PETROLEUM JELLY

Finest qualities, Red, Yellow, and White, Guaranteed B.P.

**GUMS. WAXES. DEXTRINE.**  
**CRUDE DRUGS.**

**W. M. KIDSTON & CO., 43/45 Great Tower St., London, E.C.**

Telegrams: "KIDSTONISM, BILGATE, LONDON."

Telephone: AVENUE 8057.

# KO-TAL-KO

IS ASKED FOR EVERY DAY  
BY YOUR CUSTOMERS

### Stock "KO-TAL-KO" because

You cannot offer or sell a more effective hair restorer and maintainer—one more natural in its principles and certain in its effects.

Your regular customers will want it from you, and if they do not obtain it at your store will be tempted to go elsewhere.

You will never have your stock of "KO-TAL-KO" tying up your capital uselessly—on the other hand, your repeat orders quickly follow.

My trade terms will suit you, for they allow you to make your proper and deserved profit, and you are working on sound business all the time.

### NOTE TRADE TERMS (P.A.T.A.)—

5/- Size ... .. 48 per dozen  
12/6 " ... .. 112/6 "

**J. HART BRITTAIN, Ltd.**

(Dept. C.D. D.)

2 PERCY ST., LONDON, W.1

# KO-TAL-KO

10d



Make your  
old Hat a  
new one.

In bottles, 10d.  
each, in sepa-  
rate neat car-  
tons, with suit-  
able brush.

These Dyes  
are a distinct  
invention,  
dyeing the  
straw without  
an objection-  
able varnished  
appearance,  
and producing  
the effect of  
new goods.

**NO GLOSS. NO POLISH.**

On the P.A.T.A.

WRITE FOR TERMS, PATTERNS,  
ALSO LEAFLET OF TESTIMONIALS.

# "Luton" HAT DYE

**WHITAKER & CO., COLOUR WORKS.**  
KENDAL, ENG.

London Depot: 80-82 Clerkenwell Road, E.C.

"Glossy" Series supplied if desired.

Special Non-Inflammable Series for Export. Est. 1878

Telegraphic Address: "Dullette Kendal." Telephone: No. 214.



# SAVE 3/- PER GALLON

BY BUYING

GUARANTEED GENUINE

## NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

*Kindly write for sample to*

**JOB BROS., Manufacturers, Tower Building, LIVERPOOL.**

Telegraphic Address: "JOB LIVERPOOL"

Tel. 1039 CENTRAL

And of ST. JOHN'S, N.F.

Established 1780.



## FRED<sup>K</sup>. BOEHM LIMITED

15, 16, 17 JEWRY STREET, LONDON, E.C. 3.

Established 1888.

Incorporated 1908.

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## CHEMICALS

Pharmaceutical, Technical, Photographic.

Laboratory Reagents.

## ESSENTIAL OILS.

## DRUGS, OILS, WAXES.

Enquiries for special offers respectfully solicited.



**"Newbery's"**  
FRANCIS NEWBERRY & SONS LTD.

## Dental Cream de Luxe.

A Tooth Paste for refined tastes. Put up in most artistic cartons in the following flavours :—

Formalin, Mint,  
Thymol,  
Oxygen,  
Areca.

Price 7/- per doz.

Will attract the best class of customer to your establishment.

Charterhouse Square,  
LONDON, E.C.

## MECHANICAL DENTISTRY

**Freeman Bros.**  
WITHAM - HULL.

'Phone—CENTRAL 1290.  
NO BRANCHES

**High-Class Work  
at Moderate Prices**

Reliable Staff under Personal Supervision.  
Punctuality Guaranteed, & Best Materials.

## ROBARTES' FOUR

### Diadem Vanishing Cream.

The New Cream for discerning women, put up in original white globes, P.A.T.A. 3/9, costs you 30/- doz.

### Diadem Face Powder.

The fragrant powder in the dainty striped box. P.A.T.A. 2/6, costs you 20/- doz.

### Decoltene.

The wonderful, pleasant, effective liquid Hair Remover. Sells and gets repeats. P.A.T.A. 3/9, costs you 30/- doz.

### Dinkie.

The dainty deodorant that eliminates all odour of perspiration, P.A.T.A. 2/6, costs you 20/- doz.

Ask your Wholesaler. Artistic showcards, etc. with orders.  
Robartes. Ltd., 128 Jermyn St., London, S.W. 1.

**W. DAVIS**

100 WOOD ST., E.C. 2

'Phone: CITY 8220

For OPEN  
WINDOW  
DISPLAYS.



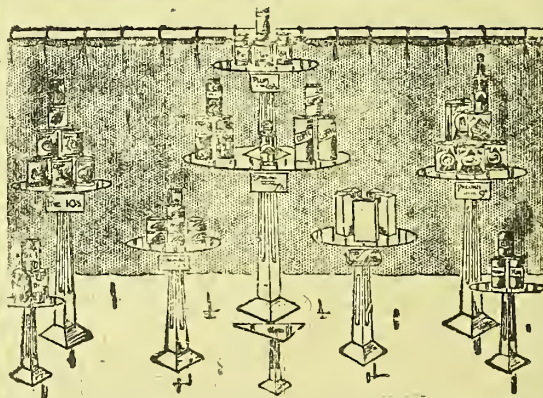
**W. DAVIS**

100 WOOD ST., E.C. 2

'Phone: CITY 8220

For OPEN  
WINDOW  
DISPLAYS.

WRITE FOR OUR LIST SHOWING MANY  
NEW DESIGNS FOR OPEN WINDOW DISPLAYS.



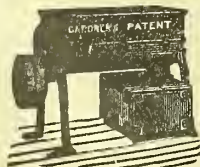
Set 139.—Consisting of 1 27 in., 2 24 in., 3 12 in. 3 9 in.  
POLISHED OAK PEDESTALS, with 1 24 in. x 18 in.,  
2 18 in. x 12 in., 2 16 in. x 10 in. OVAL PLATE GLASS  
SHELVES: 1 12 in. Angle and 3 10 in. Circles.  
**80/- Complete.**

Our WINDOW PAPERS are 3/6 per roll of 12 yards.  
21 in. wide—WRITE FOR SAMPLES.

GARDNER'S PATENT

## "RAPID" SIFTERS & MIXERS

OVER 4,000 working in  
almost every Trade where  
POWDERS are Sifted and  
Mixed and Lumps Re-  
duced, all being done at  
one operation and without  
loss by dust



FOR HAND OR POWER.

From 55/- to £90.

CATALOGUES FREE.

WM. GARDNER & SONS, Engineers, GLOUCESTER.



FINEST **BLACKS** AND  
**COLOURS**  
 (ALL SHADES)

**CARAMEL**  
**COLOUR**  
 IN POWDER.

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Guaranteed  
 Harmless.

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**50**

times the concentration  
 of Liquid Caramel.

*Sample on application.*

Soluble in  
 WATER SPIRIT  
 OIL TURPS  
 WAX BENZOLINE  
 GLYCERINE NAPHTHA  
 PETROLEUM CREOSOTE  
 and

IN FACT—ANYTHING.

**BLACK FOR INK.**

**MARKING INK.**

**ETERNITE**

A combined Stain and  
 Preservative for Wood.

**HOUSEHOLD DYES.**

**RHEUMSOL BATH SALTS**

in 1/- Tins.

**WILLIAMS BROS. & CO.**  
 Hounslow, Middlesex.



"Mr. Benger's  
admirable  
preparation."  
The LANCET.

# BENGER'S

## Food

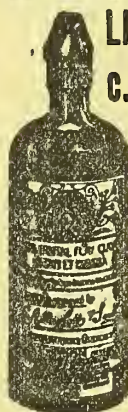
For INFANTS,  
INVALIDS and the AGED.

### Supplies of Benger's Food.

Messrs Benger regret that it is not possible, at present, to meet the demand in full. If Retailers having difficulty in obtaining what is required, will furnish the name of their usual Wholesalers, steps will be taken to provide, through them, a small supply with as little delay as possible, to meet pressing needs.

*Urgent requests from Physicians & Hospitals  
receive prompt attention.*

BENGER'S FOOD LTD., Otter Works, Manchester.



### LIQ. SANTAL FLAV. c. BUCHU et CUBEBA

(Hewlett's)

Price 11/- per lb. Packed  
for dispensing only, in 10,  
22, 40 and 90 oz. bottles.

"Experience has shown this  
preparation to possess the  
same efficacy as Santal Oil  
itself. It mixes clear with  
water, and has a taste by no  
means disagreeable."

*The Practitioner.*

## VIROPHOS

Of proved utility in Nervous Diseases,  
and a Powerful Restorative for the  
Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value, en-  
hanced by the presence of assimilable  
phosphates."—*The Lancet.*

WHOLESALE PRICES:

No. 1.	1 lb. Tin ...	9/- per doz.
- 2.	3 1/2 " "	14/6
- 3.	6 " "	24/-
- 4.	12 " "	42/-

Introduced and prepared only by

C. J. HEWLETT & SON, Ltd., Wholesale Druggists, 35-42 Charlotte St., LONDON, E.C. 2.

### MIST. PEPSINAE CO. c. BISMUTHO

(Hewlett's)

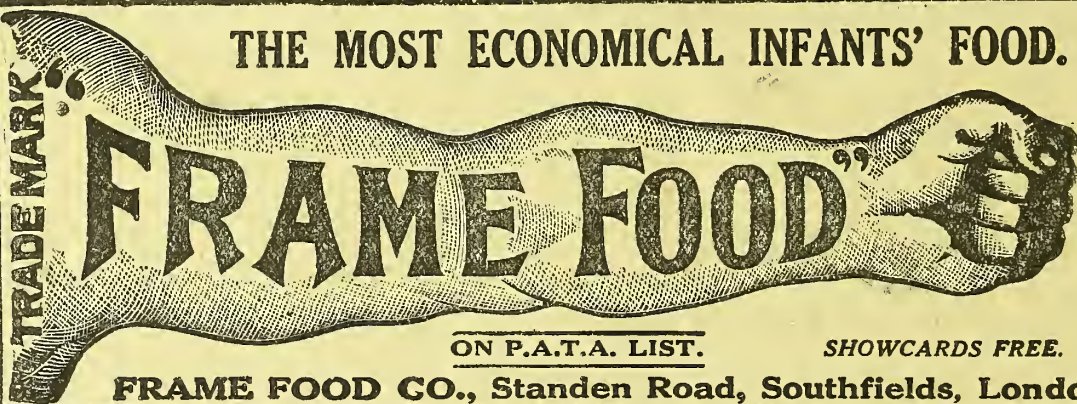
Price 11/- per lb. Packed  
for dispensing only, in 10,  
22, 40 and 90 oz. bottles.

"Obviously likely to be of  
much advantage in the fre-  
quent cases of irritative  
dyspepsia, with atony of  
gastric or intestinal mus-  
cular layers."

*British Medical Journal.*



## THE MOST ECONOMICAL INFANTS' FOOD.



ON P.A.T.A. LIST.

SHOWCARDS FREE.

FRAME FOOD CO., Standen Road, Southfields, London.

# CASEIN

ALIMENTARY AND INDUSTRIAL

Dairy Produce Importers.

NIEUWHOF, SURIE & CO., LTD.

Office: 5 LLOYD'S AVENUE, LONDON, E.C.

Works & Warehouses: 9 ALDCATE AVENUE, LONDON, E.

TELEPHONES - - AVENUE 34 & 35  
TELEGRAMS - - "SURICODON, LONDON."

# PURE ORANGE WINE

## A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.

(Wholesale only)

London Agent: JAMES STIRTON 43 GREAT TOWER STREET, E.C.





RETAIL SELLING PRICES:  
2-oz. bottle, 1/1½; 4-oz. bottle, 2/-; 16-oz. bottle, 6/-  
(including **FREE VAPORISER** with each bottle).

### THE BRITISH THROUGHOUT VAPORIFIC MEDICINAL PREPARATION

for Asthma, Whooping Cough, Spasmodic Croup,  
Catarrh, Colds, Sore Throat, Bronchitis, Broncho-  
Pneumonia, Scarlet Fever, Measles.

SEVERAL TOWNS STILL OPEN FOR SOLE AGENCIES.

**THE COAL BY-PRODUCTS COMPANY,**

112 HIGH HOLBORN, W.C. 1.

Telegrams: "COBYPROCO, WESTCENT, LONDON."

#### AN OPEN LETTER TO PHARMACISTS.

## Vitamogen.

From the large number of complaints we are receiving every day from medical men of the difficulty their patients are experiencing in obtaining Vitamogen, we are convinced that there is some unknown cause for this, as before we placed our preparation on the market we approached all the wholesale houses, and as far as we are aware stocks are being carried by them; but it has occurred to us that possibly a confusion has arisen owing to the great influx of Foods of the nature of the German preparation, that our product is a similar preparation, whereas it is **quite distinct and has nothing in common with it.**

Vitamogen is a preparation containing the Vitamines in their natural and unchanged condition—in combination with Fats, Proteids and Carbohydrates—the whole constituting a Complete Food in a palatable and easily assimilable form. Vitamogen has been found quite as suitable for administering to young children, and even to infants, as to adults.

In a word, Vitamogen stands alone as a means of supplying the Vitamines—an entirely new food element.

Vitamogen is packed in two sizes, 2/- and 4/6, obtainable from all the principal wholesale houses.

Vitamogen owes its origin to our Chairman, who 20 years ago invented Virol, the well-known Invalids' Food.

VITAMOGEN, LTD.

24 HOLBORN.  
LONDON, E.C. 1.

## More Customers

The  
Beverage



of  
Health

Will call at your store if they know you stock Vi-Cocoa because this food beverage of the people is in great demand as a tonic restorative in cases of mental and physical overstrain.

Display Vi-Cocoa in your window—it will attract many who would otherwise pass you by. Write for trade terms to-day—they are particularly favourable.

**Vi-Cocoa**

The Watford Mfg. Co. Ltd.  
Delectaland — Watford.

## "Prana" Sparklets.

### NOTICE TO THE TRADE.

MESSRS. AERATORS, LTD., regret that it has been, and will be for some time yet, impossible for them to meet demands for the "Prana" Sparklet Syphons and Bulbs, not only owing to other urgent war work, but also to the restricted supply of materials and the large demands (which must be considered preferentially) by the Expeditionary Force Canteens, Red Cross Society, &c. &c.

As regards "D" Bulbs, for the time being it is only possible to refill empty bulbs returned, and the Company request the co-operation of the Trade in the return of as many empties as possible for refilling.

**AERATORS LTD.,**

"Prana" Sparklet Works,  
Upper Edmonton, N.



# GÉRAUDEL'S PASTILLES



THE GOOD OLD FRENCH PRODUCT.

The most popular and best selling in the world.

THESE PASTILLES OF PURIFIED PINE  
TAR AFFORD INSTANT RELIEF TO

**Sore Throat, Colds, Coughs,  
Bronchial Affections, &c.**

MINIMUM RETAIL PRICE, **1/3** PER BOX.

Prepared by A. GÉRAUDEL, Ste. Ménéhoulo, Marne, France.

AGENTS:

**Gilbert, Kimpton & Co., Peninsular House, Monument St., London, E.C.**

## LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,  
— Manufacturing Chemists —

**HULL**

**I**NVITE the Trade to take up the following valuable  
P.A.T.A: Protected Lines, bearing a very large  
Protected Retail Profit, which sell freely and are  
well known and valued by the Public in many parts  
of the country.

	P.A.T.A.	Protected Retail Price.	Dozen Net.
* LOSALL'S SALT (well advertised), tins		9d.	6/6
* " " " " " "		1/6	13/-
* " " " " " bottles in		1/6	13/-
" " " " " cartons		1/6	13/-

*\* Losall's Salt sells so well, surely it  
must pay Pharmacists to stock such  
a big profit-bearing protected line.*

Owing to the great increase in the cost of raw material  
and containers for our Losall's Salt, we are compelled  
to raise the trade prices, but the retail protected prices  
are proportionately increased.

### LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, } 1/6 13/6  
especially suitable for use in Eczema

Chemists requiring effective advertising matter for  
Losall's Salt, &c., will, on application direct to  
Lofthouse & Saltmer, receive a liberal supply of  
Dummies, Showcards, Window Slips, Price Tickets,  
&c., Carriage Paid, whether or no they have an  
account open with the Firm.

A Dairyman in Dart-  
ford writes:—Please  
send another tin of  
"Rodine." It is the most  
effectual poison I have  
ever used; it cleaned my  
place in no time. I  
have a few more wanting

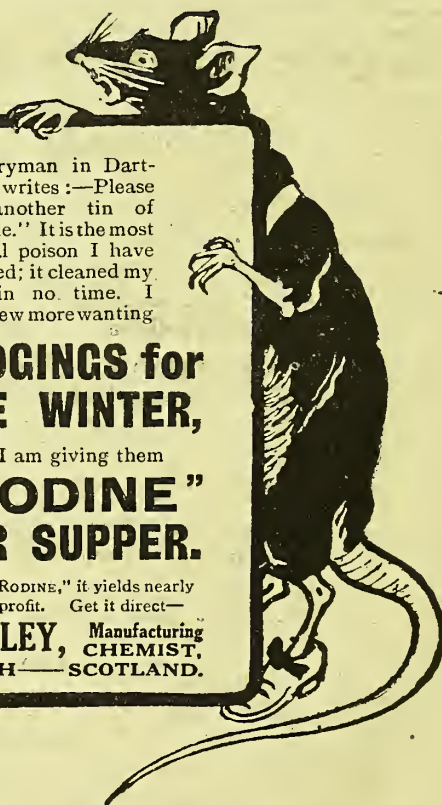
**LODGINGS for  
THE WINTER,**

so I am giving them

**" RODINE "  
FOR SUPPER.**

Push " RODINE," it yields nearly  
100% profit. Get it direct—

**HARLEY, Manufacturing  
CHEMIST,  
PERTH—SCOTLAND.**



Export Agents:

TOZER, KEMSLEY & MILLBOURN, Ltd., 84 Fenchurch St., London, E.C. 3.



# LIQUID GLUCOSE

SO<sub>2</sub> Free.

NO BLUEING USED.

Specially pure for  
Pharmaceutical Preparations.

THE  
**MANBRÉ SACCHARINE**  
Co., Ltd.,  
HAMMERSMITH, LONDON, W. 6.

## "GLACIALINE"

The Original and Most  
Effective Food Preservative

The only Food Preservative that has ever been publicly  
awarded Gold and Silver Medals and Certificates of Merit  
for Purity and Harmlessness.



Full directions for use enclosed in every package.  
Packed in 6d. and 2/- Packets and 2/3 Canisters.

FAVOURABLE TRADE TERMS UPON APPLICATION  
TO THE

Sole Proprietors and Manufacturers:

**BURTON, BAKER & CO.**  
16 EASTCHEAP, E.C. 3.

# SACCHARINE

**BENGOL TRADING CO., Inc.**, Gresham House, Old Broad St., E.C. 2. Telephone: London Wall, 4597, 4598.  
Tele. Add.: "Bengol, Gresham House, London." (1)

Telephone: No. 138 Pendleton.

ESTABLISHED 1855.

Telegraphic Add.: "Champagne Manchester."

## B. ROBINSON & CO., Ltd.

PENDLETON, MANCHESTER.

## CONCENTRATED WATERS.

Aqua Amygd. Amar. Conc. (U.S.)

" Anethi Concent.

" Anisi

" Camphoræ "

" Caryophyl "

" Oarui

" Cinnam. Ver. Conc.

" Cassiæ Conc.

" Flor. Aurant. Conc.

" " Sambuci Conc.

Aqua Fœniculi Conc.

" Menth. Pip. Conc.

" " Ang. Conc.

" " Virid. Conc.

" Pimentæ Conc.

" Pulegii "

" Rosmarini "

" Rosæ

" " Virgin Conc.

WHOLESALE TERMS ON APPLICATION.

STANDARDISED  
TO B.P. 1914.

Customs drawback on Export Orders now allowed. Inquiries solicited, which shall have prompt attention. Samples free to the Trade.

NOTE.—These original Concentrated Medicinal Waters (1-40) still maintain their foremost position, and are unsurpassed by any other make.



**E. FORSHAW & SON LTD.** Tel. 123  
 SOAP AND CHEMICAL PLANT MAKERS  
 WARRINGTON, ENGLAND.

ESTABLISHED 1878

SOAP, CHEMICAL BOILING PANS, STEAM JACKETED PANS, MIXING PANS, EVAPORATORS, STILL, AND EVERY DESCRIPTION OF SOAP AND CHEMICAL PLANT.

NO. 1 Plant for Experimental purposes.

NO. 2 Plant Output 100 to 200 pounds per day.

NO. 3 Plant Output 400 to 600 pounds per day.

NO. 4 Plant Output 800 to 1,000 pounds per day.

NO. 5 Plant Output 2,000 to 2,500 pounds per day.

NO. 6 Large combined triple granite roller with triple safety cutter. Granite rollers 12 inches long 20 inches diameter.

NO. 7 Improved multiple mill for grinding and mixing materials with 1/2, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

NO. 8 Hammer blower with reducing gear for dry, wet, and sticky materials.

**E. Forshaw & Son Ltd.**  
 SOAP AND CHEMICAL PLANT MAKERS  
 WARRINGTON, ENGLAND.

**MILLED TOILET SOAP PLANT.**  
 HOUSEHOLD AND LAUNDRY SOAP PLANT.  
 GLYCERINE EXTRACTION PLANT.  
 CAUSTICIZING PLANT.  
 TALLOW MELTING PLANT.

NO. 1 Plant for Experimental purposes.

NO. 2 Plant Output 100 to 200 pounds per day.

NO. 3 Plant Output 400 to 600 pounds per day.

NO. 4 Plant Output 800 to 1,000 pounds per day.

NO. 5 Plant Output 2,000 to 2,500 pounds per day.

NO. 6 Large combined triple granite roller with triple safety cutter. Granite rollers 12 inches long 20 inches diameter.

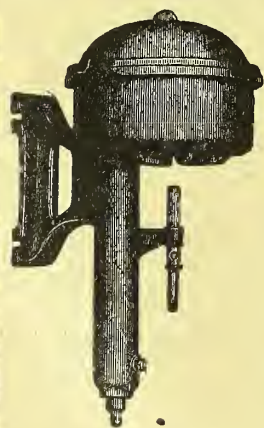
NO. 7 Improved multiple mill for grinding and mixing materials with 1/2, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

NO. 8 Hammer blower with reducing gear for dry, wet, and sticky materials.

## STOKES' AUTOMATIC WATER STILL. SIMPLICITY ITSELF.

STOKES' GAS-HEATED WATER STILL will distil half to two-thirds of a gallon per hour.

**NO LICENCE NECESSARY.**



ENTIRELY AUTOMATIC THEREFORE IT REQUIRES NO ATTENTION.

**Most Economical & Efficient Still made.**

EASILY FIXED IN A FEW MINUTES.

**Only requires Gas and Water Connections.**

**Carriage Paid British Isles**

SOLE AGENTS—

**THOMPSON & CAPPER, Ltd.**  
 Manisty Buildings, College Lane, LIVERPOOL.

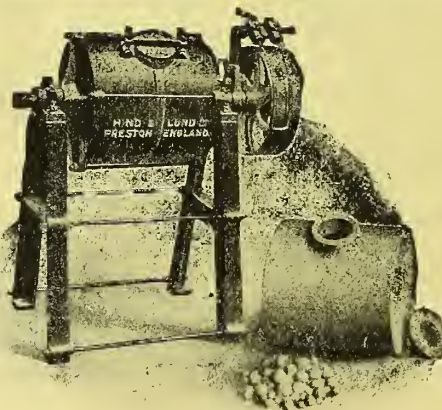
ESTABLISHED 1843.

Telephone—Royal 2060.

Telegrams—"Sanitas Liverpool."

## BALL GRINDING MILLS

IRON CYLINDERS, PORCELAIN OR QUARTZ-LINED. BATTERIES OF JARS FOR SMALL QUANTITIES. FLINT PEBBLES, PORCELAIN, BRASS, STEEL OR HARDWOOD BALLS. ALSO SPARE PORCELAIN JARS AND CHILLED IRON LINERS SUPPLIED.



**BRITISH MADE THROUGHOUT.**

SPECIALISTS IN BREAKING, GRINDING, SIFTING, DRYING, AND MIXING MACHINES.

**HIND & LUND, LTD.**

**ATLAS WORKS, PRESTON.**

Telegrams: "Atlas Preston." Telephone: No. 125. (1)

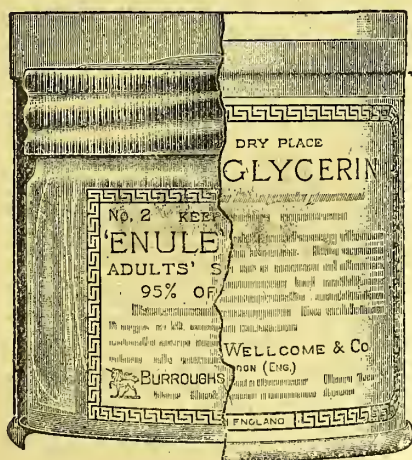


# 'WELLCOME' (Trade Mark) BRAND BENZAMINE SALTS :: :: :: ::

## TRADE MARK 'ENULE' BRAND GLYCERIN

### RECTAL SUPPOSITORIES

Pure anhydrous glycerin 95%.  
Rational shape, rapidly effective.  
Highly esteemed for their superb  
quality, reliability and careful  
packing.



Each product is encased in pure tinfoil. Each dozen Suppositories is enclosed in a screw-capped glass pot which is sealed in a metal box. The illustration shows the actual size of the packing with part of the outer box removed.

Two sizes, children's and adults'; either size 24/0 per dozen boxes, subject

## HYDROCHLORIDE AND LACTATE, B.P.

Made throughout at the 'Wellcome' Chemical Works, England.

These Benzamine Salts are identical chemically, physically and therapeutically with the German

## EUCAINE SALTS.

They satisfactorily replace COCAINE in dental and local anæsthesia.

*Benzamine Hydrochloride and Lactate, B.P. are each supplied in 1/2 oz., and 2 oz. bottles. Prices on request. The right is reserved to reduce or refuse orders for unusual quantities.*



BURROUGHS  
WELLCOME & CO.  
LONDON



# WARRICK BROTHERS, LIMITED

CHOCELLÆ.  
PULVELLÆ.  
FLEXOIDS.  
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#### CONTENTS: No. 11 (Series No. 1990), Vol. 90.

	PAGE		PAGE
British Industries Fair .....	47	Irish News .....	36
Business Changes .....	45	Legal Reports .....	38
Coming Events .....	33	Marriages .....	39
Correspondence:		Military Tribunals' Decisions	34
Letters .....	51	Natal Pharmaceutical Society .....	37
Subscribers' Symposium .....	51	New Companies and Company News .....	38
Legal Queries .....	52	Observations and Reflections	41
Miscellaneous Inquiries .....	52	Personalities .....	46
Deaths .....	39	Poisonings .....	36
Editorial Articles:		Poisoning Statistics .....	37
Society Affairs .....	42	Retrospect .....	52
Pharmaceutical Cinchona-bark .....	43	Scientific Progress .....	44
Imports from the United States .....	43	Scottish News .....	36
Fats for Human Food .....	44	Trade-marks .....	40
Inland Revenue Report .....	44	Trade Notes .....	40
Java Citronella Oil .....	44	Trade Report .....	48
English News .....	35	Westminster Wisdom .....	47
European War .....	33	Wills .....	39
Information Department .....	40	Winter Session of Chemists' Associations .....	45
Insurance Act Dispensing .....	46		

## Coming Events.

#### Tuesday, March 19.

*Ealing Pharmacists' Association*, Buol's Restaurant, Sandringham Parade, W., at 9 P.M. Mr. F. C. Goodall, Ph.C. (Editor of "The British Trade Review"), on "The Drug Markets."  
*South-West London Chemists' Association*, Stanley's Restaurant, Lavender Hill, S.W., at 8.45 P.M. Mr. John Keall on "My Three Years on the Pharmaceutical Council."

#### Wednesday, March 20.

*Pharmaceutical Society of Great Britain, North British Branch*, 26 York Place, Edinburgh, at 8 P.M. Evening meeting. Mr. Henry Stout, Ph.C., on "The Ash Test for Honey"; Dr. Henry E. Watt, "Salts of Cryptopine"; Mr. R. W. Garrow, Ph.C., "Note on Camidge's Method for the Estimation of Sugar"; Mr. J. Rutherford Hill, Ph.C., on "Food Wastage in Potato Cooking."

*Newcastle-on-Tyne Pharmacists' Association*, Church Institute, Hood Street, at 6.30 P.M. Mr. David Grieve, Ph.C., on "The Aromatic Waters of the British Pharmacopoeia."

*Sheffield Pharmaceutical and Chemical Society*, Literary and Philosophical Society's Rooms, at 8.30 P.M. Mr. Hugo Wolf on "Pharmaceutical Problems that Really Matter."

*Birmingham Pharmaceutical Association*, Imperial Hotel, Temple Street, at 8.30 P.M. Smoking-concert and social evening.

#### Thursday, March 21.

*Early-closing Association*, Mansion House, London, E.C., at 3 P.M. Annual meeting.

#### Friday, March 22.

*Royal Institution of Great Britain*, Albemarle Street, Piccadilly, London, W. 1, at 5.30 P.M. Professor Sir J. J. Thomson on "Radiation from the System of Electrons."

## European War News.

#### Import and Export Notices.

**UNITED KINGDOM.**—The exportation of tooth-brushes has been prohibited to all destinations, except under licence.

**UNITED STATES.**—British importers desiring to import goods from the United States must obtain permission from the Department of Import Restrictions, Board of Trade, 22 Carlisle Place, London, S.W. 1. See p. 43.

#### Bismuth Order.

The Minister of Munitions has issued an Order, dated March 12, classifying under Regulation 30A of the Defence of the Realm Act as war material "all bismuth-bearing ores and bismuth metal and alloys and salts derived or produced therefrom." Declaration has to be made of stocks of bismuth ore, and persons treating the ore or manufacturing any material from it have to declare their stocks within fourteen days. An exception is made in the case of those whose stock of bismuth salts does not exceed 56 lb., or of bismuth metal or alloy 14 lb., who are not required to send in a return. A general permit has been issued permitting the purchase of bismuth metal and bismuth salts not exceeding in any one calendar month in the case of bismuth metal a total quantity of 10 lb., and in the case of bismuth salts a total quantity of 56 lb., provided that these are purchased and used for pharmaceutical or medical purposes only. The sale of the salts is also authorised to those who agree to the conditions mentioned. Applications for permits for larger quantities should be made to the Controller of Non-Ferrous Materials Supply, M.S./P., Ministry of Munitions, 8 Northumberland Avenue, London, W.C. 2.

#### Shellac Control Order.

The Minister of Munitions, on March 12, issued an Order that every person holding or having under his control, whether in stock or transit, any shellac, shall within seven days of the date thereof furnish a return to the Controller, Non-Ferrous Materials Supply M.S./L., Ministry of Munitions, 8 Northumberland Avenue, London, W.C. 2, containing full particulars of such shellac, the respective grades thereof, the purposes for which it is intended, and the average monthly consumption of shellac by such person for any purpose during the year 1917; provided that no such return is required from any person unless he has at some time since January 1, 1917, had in his possession or under his control an amount of shellac exceeding an aggregate of 7½ cwt. net weight. No person shall until further notice purchase or, except for the purpose of carrying out a contract in writing existing prior to such date for the purchase of shellac, take delivery of any shellac, whether situate in or outside the United Kingdom, except under and in accordance with the terms of a licence issued under the authority of the Minister of Munitions, or sell or, except for the purpose of carrying out a contract in writing for the sale of shellac existing on March 12, deliver any such shellac to any person other than the holder of such a licence and in accordance with the terms thereof, provided that no such licence shall be required by any person for the purchase of shellac in quantities not exceeding an aggregate of 7½ cwt. net weight during any one calendar month, or for the sale or delivery of such maximum quantity on any such purchase. The expression "shellac" is defined to mean: Shellac, seed lac, stick lac, garnet lac, and button lac, or any of them. All applications for licences should be made to the address given above.

#### After-war Stocks.

The Minister of Reconstruction has appointed a Committee on Financial Risks Attaching to the Holding of Trading Stocks, whose duty is to inquire and to report as to any measures which could be adopted with a view to securing that manufacturers should be financially in a position to hold stocks after the war, and that reasonable safeguards are established to prevent serious financial losses as a result of possible depression following on a period of great inflation in respect of stocks of materials required for industry. The constitution of the Committee is as follows: Mr. F. C. Harrison (Chairman), Mr. Cecil Budd (Ministry of Munitions), Mr. John E. Davison (trade-union official), Mr. G. Binney Dibblee (newspaper manager and author), Mr. Ernest Debenham (general merchant and manufacturer), Mr. A. W. Flux (Board of Trade), Mr. A. J. Hobson (ex-Master Cutler, member of the Advisory Committee of Board of Trade), Mr. Wm. McIntock (Glasgow accountant), Mr. J. C. Stamp (Board of Inland Revenue), Sir Richard Vassar-Smith (Chairman, Lloyd's Bank). Secretary: Mr. R. C. Smallwood, Ministry of Reconstruction; 2 Queen Anne's Gate Buildings, S.W.

B



## Personalia.

CAPTAIN J. F. ADDEY, Shropshire Light Infantry, whose promotion has recently been gazetted, is a pharmaceutical chemist of Ireland, and in pre-war days was with Mr. T. N. Moffitt, Ph.C., Crumlin Road, Belfast.

CADET A. C. DEWDNEY, the elder son of Mr. A. V. Dewdney, chemist and druggist, The Cambridge Pharmacy, East



CADET A. C. DEWDNEY.

Twickenham, whose portrait is shown here, is just sixteen and a typical English boy. He has been at sea for twelve months, and three times during that period the vessel upon which he was serving has been torpedoed on the high seas. Each time he has suffered severely from exposure, and on one occasion was badly injured. His younger brother is also at sea. Mr. A. V. Dewdney has since the early days of the war been with Mrs. Fife, managing the business at East Twickenham of Sergeant D. F. Fife, R.A.M.C., who joined up on the outbreak of war.

LIEUTENANT R. BARKLIE, King's Own (Royal Lancaster Regiment), has been awarded the Military Cross for bravery. Lieutenant Barklie, who is now attached to the Machine-gun Corps, is a son of the late Mr. Robert Barklie, for many years public analyst of Belfast, and at one time in pharmacy.

LIEUTENANT KENNETH E. WOOTTON, Tank Corps, was decorated with the Military Cross on March 9 by the King



at Buckingham Palace. Lieutenant Wootton, who commanded a section of Tanks at Cambrai, is shown in the photograph with his crew. He is the son of Mr. Henry Wootton, B.Sc., The London College of Chemistry, 361 Clapham Road, London, S.W. 9.

## Extra Food for Invalids.

It is stated in "The Lancet" that, in view of the difficult position in which doctors are likely to be placed in granting certificates to invalids for extra quantities of certain foods, it has been decided by the Ministry of Food, on the advice of the Committee of Reference of the Royal Colleges of Physicians of London and Surgeons of England, and of the Central Medical War Committee, that for the time being these can only be allowed as follows:

1. *Sugar*.—Extra sugar shall only be allowed for persons with difficulty in swallowing solids due to organic disease—e.g., cancer of the tongue, cancer of the oesophagus, gunshot wounds of the jaw.

2. *Meat, Butter, and Margarine*.—Extra meat and fat may be allowed for patients suffering from diabetes and from tuberculosis, also from coeliac disease and pancreatic insufficiency. No extra meat can be allowed for making beef-juice, beef-tea, or broth.

3. *Milk*.—Priority may be granted for milk as follows: In cases of acute illness—e.g., pneumonia, typhoid fever, acute abdominal conditions—the doctor in attendance may give a certificate, on the receipt of which the milkman

shall be empowered to supply the quantity of milk for one week. This certificate shall not extend for a longer period than one week unless permission has been obtained from the local Food Office. Extra milk may also be allowed for pregnant and suckling women; for invalids suffering from the following chronic diseases: nephritis, tuberculosis, certain gastric and intestinal conditions—e.g., gastric and duodenal ulcers, gastrostaxis, enteritis, dysentery, and diarrhoea; recognised diseases and disorders associated with malnutrition; and for patients who are unable to take solid food.

The Committee state further with regard to cream and bread: (a) There is no disease for which cream should be allowed; (b) there is not sufficient evidence that the bread at present used is in any way injurious to health, nor that any disease requires bread made from "superior flour." In regard to the use of cream, reference should be made to the C. & D., December 29, 1917, p. 34.

## Miscellaneous.

BELGIAN DOCTORS' AND PHARMACISTS' RELIEF FUND.—The following subscriptions have been announced since our last issue: Dr. Reginald J. Hanbury, 2*l.* 2*s.*; Mr. Leonard Stearn, 1*l.* 1*s.*

TIN AND TUNGSTEN RESEARCH.—A Research Fund has been raised for the purpose of investigating methods of increasing the recovery of these metals in the treatment of ores. The Secretary of the Fund is Mr. A. Richardson, 15 Great George Street, Westminster, S.W. 1.

PRICES OF CONDENSED MILK.—The Ministry of Food anticipates completing its arrangements for the distribution of condensed milk by the end of March, and in early April will make its first allotment to the trade. The retail prices at which such condensed milk will be sold per tin are as follows: Full cream sweetened, 14 oz., 1*s.* 2½*d.*; full unsweetened, 12 oz., 1*s.* 0½*d.*; full evaporated, 16 oz., 1*s.* 1*d.*; machine skimmed sweetened, 16 oz. (gross), 1*s.* 1*d.*

NATIONAL WAR BONDS.—Among the large subscriptions announced we note the following: Sir Marcus Samuel, 600,000*l.*; Price's, Ltd., Battersea, 250,000*l.*; E. D. Sassoon & Co., 100,000*l.*; Bessler, Waechter & Co., 100,000*l.*; Mond Nickel Co., Ltd., 100,000*l.*; Nestle's Condensed Milk Co., 100,000*l.*; Joseph Travers & Sons, Ltd., 50,000*l.*; Donald Campbell & Co., 25,000*l.*; Horlick's Malted Milk Co., 25,000*l.*; Co-operative Wholesale Society, 25,000*l.*; De Trey & Co., Ltd., 15,000*l.*; the International Sponge Importers, Ltd., 5,000*l.* (in addition to 35,000*l.* in War Loan stock and 47,400 fr. in French War Loan). Goodall, Backhouse & Co., Leeds, in response to a request from the honorary organiser of "Business Men's Week," during that week devoted the whole of their advertising space, in both the London and provincial Press, to the advertising of War Bonds. This, which represents an expenditure of several hundreds of pounds, was a noteworthy contribution to the success of the campaign.

## Military Tribunals' Decisions.

SINCE OUR LAST REPORT the following decisions have been notified:

BEDFORD.—The case of Mr. G. T. Godolphin, assistant with Taylor, Brawn & Flood, Ltd., chemists, was adjourned for substitution.

BERMONDSEY.—Mr. R. Blackie, manufacturing chemist, Tower Bridge Road, was granted exemption till June 1 for a manager. Conditional exemption was withdrawn from a foreman with Austins, Ltd., manufacturing chemists, Bermondsey Street, it being stated that he had been granted a protection card.

BOURNE.—On appeal, Mr. Cyril H. M. Baxter, chemist and druggist (Mills & Baxter), was exempted to May 31.

CAMBRIDGE.—Mr. William T. Archer, chemist and druggist, Cherryhinton Road, for whose exemption a petition had been initiated among his customers, was granted three months.

DORKING.—Mr. Harold Dixon, chemist and druggist, was exempted for three months.

GRANTHAM.—Mr. J. Cheshire, chemist and druggist, has been exempted for three months.

LEWES.—Three months' exemption was substituted for conditional exemption in the cases of Mr. R. B. Calderwood, chemist and druggist, Cliffe High Street, and Mr. T. G. Young, chemist and druggist, assistant with Mr. J. C. Lloyd, chemist and druggist.

SOUTHWARK.—A cashier and buyer with Shirley Bros., Ltd., druggists' sundriesmen, Rockingham Street, was granted four months' exemption in place of conditional exemption. It was stated that he is the only one left of thirty men previously on the firm's staff.



## English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

### Easter Holidays.

We have ascertained that the following London houses will be closed from Thursday evening, March 28, to Tuesday morning, April 2:

Allen, Stafford, & Sons, Ltd., 7 Cowper Street, Finsbury, E.C.

Bell, John, Hills & Lueas, Ltd., Oxford Works, Tower Bridge Road, S.E.

Berton, Arthur, Ltd., 15 and 17 Worship Street, E.C.

British Drug Houses, The, Ltd., 22-30 Graham Street, City Road, N.

Burge, Warren & Ridgley, Ltd., 91 and 92 Great Saffron Hill, E.C.

Burgoyne, Burbidges & Co., Ltd., East Ham.

Burroughs Wellcome & Co., Snow Hill Buildings, E.C.

THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

Christy, Thomas, & Co., Old Swan Lane, E.C.

Curling, Geo., Wyman & Co., 56-59 Bunhill Row, E.C.

Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

Fabra Co., The, Ltd., 24 Minories, E.

Formalin Hygienic Co., The, Ltd., 3 Lloyd's Avenue, E.C.

Macfarlan, J. F., & Co., 9 and 11 Moor Lane, E.C.

Maw, S., Son & Sons, Ltd., 7 to 12 Aldersgate Street, E.C.

Newbery, F., & Sons, Ltd., 27 and 28 Charterhouse Square, E.C.

"Sanitas" Co., The, Ltd., Locksley Street, E.

Smith, T. & H., Ltd., 25 Christopher Street, E.C.

Sparks, White & Co., Ltd., Tenter Street, E.

R. W. Greeff & Co., Thames House, Queen Street Place, E.C., are closing on Friday, March 29, and Monday, April 1.

### Birmingham.

Mr. Wilfred Southall, Ph.C., has been made Chairman of the Citizens' Committee.

The sale of garden-seeds appears, so far as this locality is concerned, to be passing out of the hands of the chemists who used to have a share of it.

Among the large amounts subscribed in Birmingham's "Dreadnought" week was one of 5,500*l.* from Mr. Oliver Bird (Alfred Bird & Sons, Ltd., manufacturing chemists).

Chemists desirous of taking the St. John Ambulance "First Aid" course are asked to send their names as early as possible to Mr. L. A. Mills, 275 Coventry Road, Small Heath.

Boots, Ltd., have purchased for 5,600*l.* the property and the off-licence at 58 Bull Street, adjoining their premises (of which they are also the owners) opposite the Great Western Station and Hotel.

The son of a well-known local pharmacist appeared at a recent fancy-dress ball as a fitch of bacon; and all the ladies present—so it is said—formed up into a queue and waited for him. But he must have felt rather embarrassed.

Mr. Laurence C. Tipper, senior partner of Tipper & Co., drug-grinders and veterinary chemists, Balsall Heath, has been re-elected President of the Birmingham Horse and Vehicle Owners' Association. Mr. Tipper is also a prospective candidate for Parliamentary honours.

The Guest Hospital and Eye Infirmary, Dudley, is advertising for a "qualified" lady dispenser: commencing salary, 100*l.* per annum, with lunch, etc. Training in radiography at the hospital's expense, with an increase of salary when "competent," is to follow the appointment.

### Liverpool.

Cough-mixtures are in great demand after the trying spell of searching winds.

The Wallasey Chemists' Association are to hold a whist-drive in aid of the Red Cross-funds on March 20.

The Royal Institution, Colquitt Street, the headquarters of the Liverpool Chemists' Association, has been devoted for some days past to an exhibition of Canadian war photographs.

Mr. Richard Brown, who remains on the Register of Chemists and Druggists, but carries on the profession of a fine-art photographer, gave a successful entertainment for the Red Cross at Wallasey last week, the Mayor presiding. Several Liverpool and Wallasey pharmacists supported the effort.

The Liverpool Chemists' Association, which has lately issued its sixty-eighth annual report, is promoting a special district rally at the Royal Institution on April 24, when

Mr. J. G. Tringham is to give his talk on "Tales that Tell; or, The Art and Part of Publicity," and discussion will follow.

Lord Leverhulme has accepted the honorary presidency of the Birkenhead Children's Eisteddfod, and Mr. H. Humphreys Jones has become an Honorary Vice-President. Mr. Jones, both in the School of Pharmacy and in his analytical work for Clayton & Jowett, Ltd., is probably rendering better service to his country than he could in any military capacity.

Mr. W. H. Saunders (Ayrton, Saunders & Co., Ltd.) represented the Liverpool Chamber of Commerce at the deputation which on March 12, with other Chambers of Commerce, waited on Sir Arthur Stanley, President of the Board of Trade, in regard to the Patents and Trade-marks Bills. Sir George Marks introduced the deputation, and Sir A. Stanley promised to consider carefully the views that had been placed before him.

At Liverpool Police Court on March 11, Richard Lewis, who had been in the employ of Ayrton, Saunders & Co., Ltd., Hanover Street, was sentenced to three months' imprisonment for having, as an unauthorised person, sold five blocks of opium, valued at 12*l.*, to a Chinaman. Evidence was given that Lewis sold 6 lb. of opium to the Chinaman, whom he met in the street, for 6*l.* 5*s.* It was also stated that a further sum of about 40*l.* passed between the two men for future deliveries, and that Ayrton, Saunders & Co., Ltd., had missed from their premises over 100 lb. of opium, valued at 350*l.*, during the early part of this year.—Fines inflicted at the same court upon Chinamen for the unauthorised possession of opium totalled 462*l.*

### Sheffield.

The business of the Ling Hill branch of Oxo, Ltd., has been transferred to Change Alley.

Mr. J. Gilbert Jackson, who has had a sharp attack of pleurisy, is on the road to recovery.

Mr. Maehen, the district representative for Izal, has gone to France as a Service motor-driver. His civil duties are to be carried on by Mrs. Maehen.

When any item on an Insurance script is not very legible, it is much safer to make some distinctive mark by way of drawing the printer's attention to it to ensure payment.

This city responded splendidly to the call for the purchase of three cruisers, subscribing for over five. Several chemists gave a helping hand by the sale of War Bonds, etc.

There has been an epidemic of window-smashes lately. Mr. J. S. Burnell, Glossop Road, has had his window broken by a butcher's cart, and a more serious accident has happened to Mr. J. A. Johnson's pharmacy in Barber Road. A large motor-lorry got out of control, crashed down the road (very nearly pinning Mrs. Johnson, who was near by), and went through the window, carrying with it a showcase 15 ft. long, and doing damage to the amount of 80*l.*

### Miscellaneous.

BUXTON MINERAL WATER.—Buxton Borough Council are letting their rights in the well-known mineral water to a company, the Council holding the debenture shares as security.

EARLY-CLOSING ORDER.—Cumberland County Council have issued an order that chemists at Longtown shall close at 1 P.M. on Thursdays, 9 P.M. on Saturdays, and 8 P.M. on other days.

WINE-LICENCE APPLICATIONS.—A licensee for the sale of medicated wines has been granted to Mr. Thomas George Stewart, chemist and druggist, Bracknell.—The application of Mr. Bertram Simpson, chemist and druggist, Ibstock, for a similar licence has been refused.

WORKMEN'S COMPENSATION ACT.—The Home Secretary has made an Order under Section 8 (6) of the Workmen's Compensation Act, 1906, extending the provisions of the Act to (a) poisoning by benzene and its homologues or the sequelae and (b) poisoning by dinitrophenol or its sequelae. The Order consolidates previous Orders.

LIVING-IN EQUIVALENT.—The National Amalgamated Union of Shop Assistants state that several cases have arisen as to the equivalent of the meals provided for their employees by some business-houses. At one drapery-house the buyers are to receive 15*s.* 6*d.* a week in lieu of dinner and tea; shop-walkers, window-dressers, and "first" hands, 12*s.* 6*d.*; other members of the staff, 10*s.*

CHEMICAL WORKERS' WAGES.—At a London conference between employers and employees in the drug and fine-chemical trades, held on March 7, it was agreed that for the period of the war a Committee of twelve from each side should be set up, and that the Committee on Production should, at the instance of either party, in February, June, and October, hear representatives of both sides with reference to wage revisions and alterations.



**BRITISH SPA FEDERATION.**—Every effort is to be made by the British Spa Federation to further the interests of home spas at the expense of enemy resorts. Bath, Buxton, Cheltenham, Droitwich, Harrogate, Llandrindod Wells, and Woodhall Spa were represented by the chairman and general managers of each spa at the annual conference of the Federation held last week at Birmingham. Food rationing, railway facilities, home and foreign advertising, and other items were discussed.

**SALVARSAN RESEARCH.**—The Medical Research Committee (National Insurance) has appointed a special Committee to consider the methods of manufacture and biological testing of salvarsan and its substitutes, and the methods and results of their clinical administration. The members of this Committee are Surgeon-General H. D. Rolleston (Chairman), Major F. W. Andrewes, Professor William Bulloch, Dr. H. H. Dale, and Lieut.-Colonel L. W. Harrison, with Dr. F. J. H. Coutts as Secretary. The Committee has been asked to propose specific investigations aimed at improving the existing methods and results, and is arranging to invite the assistance of those who are in a position to offer evidence or advice towards the solution of particular problems arising within the scope of the inquiry.

**SALE OF FOOD AND DRUGS ACTS.**—At Stratford Police Court, London, E., on February 27, John Clarke, George Moores, and Ella Yeo were severally summoned for selling Epsom salt containing 10 parts of lead per million. Dr. Bernard Dyer, public analyst for Essex, stated in evidence that the contamination was undoubtedly due to the sulphuric acid used in the manufacture. Clarke and Moores were each fined 10s., and the summons against Yeo was dismissed on payment of costs.—A similar summons against Kate Ellen Brown, East Donyland, heard at Lexden on February 23, was dismissed. It was stated in defence that the Epsom salt was supplied by a well-known firm.—At St. Helens Police Court, on March 4, William Cook, 152 Peasley Cross Lane, was fined 5s. for selling sweet spirit of nitre containing 0.15 per cent. of ethyl nitrite, a tenth of the minimum allowed. The defendant admitted that the spirit had been in stock ten years.

**POLICE COURT CASES.**—At Croydon Police Court, on February 19, Mr. William Henry Godden, chemist and druggist, Lodge Road, Croydon (Goddens, Cash Chemists), was fined 5l. for driving a motor-cycle without having a petrol licence granted by the Board of Trade, and for using motor-spirit for a purpose not authorised. Mr. Godden explained that he used the motor-cycle in his business, and was under the impression that petrol bought in 1916 could be used without a licence.—At Mansion House Police Court, London, on March 7, William Kempson, packer, Rawson Street, Clerkenwell, E.C., was sentenced to a month's hard labour for stealing proprietary goods, value 13s. 11½d., the property of his employers, Butler & Crispe, druggists' sundriesmen, 80 and 82 Clerkenwell Road, E.C.—At Westminster Police Court, London, on March 13, Arthur Hamlyn (46), assistant in the drug department of Harrods, Ltd., Brompton Road, S.W., was remanded, bail in two sureties of 100l. being required, on a charge of stealing patent medicines, etc., value 33s., from his employers. Evidence was given that on the prisoner's residence at Grove Vale, East Dulwich, being visited, it was found to be a shop carried on by his wife as "Watson's Drug Stores," and goods were found there bearing Harrods' labels, defaced or pasted over.

**POISONINGS.**—At a resumed inquest at Buxton on the body of Arthur William Fishenden, a Canadian soldier, who died in hospital on March 1, evidence was given by Mr. Robert Wright, Ph.C., that one of three tins sent him by the Coroner's instructions contained a brown drug resembling pyrethrum, which would produce sickness, but was not strong enough to poison a man unless taken in large quantity. The jury's verdict was that "Death was due to an irritant poison, probably a medical preparation, taken by way of an overdose or by accident."—An open verdict was returned at a St. Pancras inquest, on March 9, on the body of Amelia Bloor (71), widow of a sculptor. Dr. B. H. Spilsbury gave evidence that death was due to coma from morphine-poisoning, and it was stated that in the old lady's bedroom were found between seventy and eighty tubes that had contained morphine.—A verdict of "Suicide during temporary insanity" was returned at a Hayward's Heath inquest, on March 13, on the body of Miss Hilda Gellatly, daughter of a London export merchant, who took strychnine tablets after writing a letter to the effect that she was no longer of use in this world.—While awaiting a charge of stealing postal orders, May Cresswell, postwoman, Anglesey Street, Aston, committed suicide with potassium cyanide.—Julia Piercey, Dunnington, died as the result of taking salt of lemon.—At Belfast, Sarah Stewart died from poisoning by spirit of salt.

## Irish News.

### Pharmaceutical Society of Ireland.

An advertisement appears in the Coloured Supplement for a chemistry teacher in the School of Chemistry of the Pharmaceutical Society of Ireland. Applications are to be made to the Registrar not later than March 27.

### Brevities.

Sir Charles Cameron has resigned the position of public analyst for the county of Leitrim.

The messenger-boys at Fielding's Pharmacy, Cork, who came out on strike on March 5, returned after the dinner interval.

Sir Stanley Harrington, chairman of the Cork Chemical and Drug Co., has, with others, started a fund for the widows and orphans of those who lost their lives in a recent disaster to a Cork boat. The Cork Chemical and Drug Co. has subscribed 5l.

At the Cookstown Quarter Sessions last week, Dawson McClelland, chemist's assistant, sued Samuel Hamilton, Bellaghy, for 42l., price of a motor-cycle. The case arose out of the disposal by the plaintiff of his cycle and sidecar when he joined the Royal Flying Corps. His Honour gave a decision for the amount claimed.

The Limerick Board of Guardians have received a letter from the Irish Chemists' Assistants' Association, pointing out that at a recent meeting of that organisation it was resolved that in future the minimum rate of pay for chemists acting as *locum tenentes* be not less than 3l. 3s. per week. Payment at this rate was requested for Mr. P. Coffey, Ph.C., who for some time had been acting as compounder at the city dispensary. The Guardians decided to comply with the request.

## Scottish News.

### Brevities.

Mr. Thomas Orr, herbalist, Dalry, who had a wide reputation, died on March 5.

Some chemists have instituted a rationing system for saccharin, so as to "spin out" their stocks.

Travellers report that chemists are eagerly buying up what oils are available, in anticipation of a scarcity already portending.

Many chemists in Fife and the East Coast are giving prominence to seeds and bulbs in their windows. The demand for seeds has never been so great.

Mr. William Skinner, chemist and druggist, Broughty Ferry, has been in bad health since the beginning of the year, and has decided to retire from business.

In many establishments slates and slate pencils have replaced jotters and pens. As a pharmacist humorously expresses it, "We are returning to the Stone Age."

At the annual general meeting of the East of Scotland Section of the Society of Chemical Industry, held in Edinburgh on March 12, Mr. D. B. Dott, Ph.C., was re-elected Chairman.

Colonel T. S. Clark, D.S.O., South African Medical Corps, now in command of a general hospital, served his apprenticeship as a chemist with ex-Bailie Kermath, chemist and druggist, St. Andrews.

The City and Royal Burgh of Dundee has been declared by the Local Government Board a scheduled area under Section 1 of the Venereal Disease Act. This is the second Scottish burgh to be scheduled, Aberdeen being the first.

On the arrival of the Carl Rosa Opera Company in Glasgow, a lady with a very fine voice, who had joined the company under an assumed name, disclosed her identity. She is Miss Jessie Beecham, sister of Sir Thomas Beecham, Bart.

Mr. William Allan, Ph.C., Dumfries, was on March 7 the recipient of two presentations on the occasion of his retirement from business. The chemists of Dumfries and Maxwelltown sent a wallet of Treasury notes as a mark of appreciation of services to their Association, of which Mr. Allan has been President, and expressed, through Mr. John Lockerbie, chemist and druggist, their wishes for a long continuance of the cordial relationship that had always existed. Another wallet of Treasury notes was presented by the congregation of St. Mary's Church, of which Mr. Allan has been an elder and trustee for upwards of forty years.



## Natal Pharmaceutical Society.

A GENERAL MEETING was held in the rooms of Stuart Jones & David Anderson, Ltd., on December 6, 1917, when there were present Mr. E. Tyson (President), Messrs. Legg, Firth, Anderson, Stranack, Cooper, and the Hon. Secretary (Mr. A. M. Fyvie). The President moved a vote of condolence with Mr. William Stranack and Mr. Morris Stranack on the death of Mrs. Stranack, sen. The vote was carried by the members standing. Mr. Cooper submitted the balance-sheet of the late Durban Chemists' Association, and reported on the Governor-General's Fund chemists' subscription list. He regretted that several chemists were now paying to the fund independently or through other channels, and hoped that now, when a fresh start had been made, the chemists of Durban would pay their donations through the Pharmaceutical Society. The protection of title in the new Pharmacy Bill was then considered, and the following extract from a letter received from the Pharmaceutical Society of Cape Colony was read: "The Society views with alarm and mistrust the evident weakening of our legal titles set forth in Clause 15, Sub-section 1 (a), whereby it is sought to have us called pharmacists, a title not familiar to the public, and not embodying our oldest and best commercial asset. The Society is much perturbed at the repeatedly renewed avowals of the S.A. Association of Analytical Chemists to press for a Bill securing to themselves the sole right to the use of the word 'chemist,' and admittance to that Society to be dependent on a chemistry honours pass in a B.Sc. University examination." An interesting discussion took place, and it was realised that although chemists would be quite willing to accept the title of "pharmacist," they considered it would be detrimental to the pharmaceutical profession if the title of "chemist" were to become the sole right of the analytical chemists. It was pointed out that no restriction in the matter of title could be applied to those already qualified as chemists and druggists, but it was felt that danger lay in the way of younger members of the profession who would be qualifying after the passing of the Bill. It was resolved that a reply be sent to the Pharmaceutical Society of Cape Colony, recommending that chemists and druggists should be described in the Bill as "pharmacists or pharmaceutical chemists." A letter expressing thanks for the generous and kindly welcome extended by the Society to the Australian chemists on their recent visit was read; this was accompanied by a signed illuminated address.

## Poisoning Statistics.

THE seventy-ninth Report of the Registrar-General of Births, Deaths, and Marriages, covering the year 1916, has just been issued. The following is a comparison of the main features with those of the year 1915:

	1915	1916
Population ...	35,358,896	34,500,000
Marriage rate ...	19.5 per 1,000	14.9 per 1,000
Birth rate ...	22.0 per 1,000	20.9 per 1,000
Deaths... ..	562,253	508,217
Death rate ...	15.7 per 1,000	14.4 per 1,000
Poison deaths (corrected figures) {	Accident ... 191	Accident ... 135
	Suicide ... 327	Suicide ... 241
	Total ... 518	Total ... 379
Ratio of deaths from poison ...	1 in 1,087	1 in 1,341

Following our practice, we exclude deaths due to coal-gas, insect-stings, poisonous plants, etc., and give corrected figures for such poisons as are usually sold in pharmacies. The "kind not stated" item is a bar to complete analysis of the record, but after putting it aside a sufficiently just comparison of the three years' figures as shown may be made. There is a further drop in the total, and a still more marked variation in the ratio to the number of deaths from all causes. Cocaine again shows a clean sheet, there being thus only one case in three years. Veronal exhibits a marked decline—in the period, it will be observed, ranging from twelve months to two years before it was transferred to Part I. of the Poisons Schedule. The arsenic and strychnine figures constitute the only exceptions of any note to

the general falling-off; it would be interesting to know what proportion of the increases has been reported from farming districts, where access to these poisons is often relatively easy.

Poison	Negligence and Accident	Suicide	Negligence and Accident	Suicide	Negligence and Accident	Suicide
	1914	1914	1915	1915	1916	1916
A. B. C. liniment ...	—	—	—	—	2	—
Acetanilide ...	1	—	—	—	—	—
Acetic acid ...	—	—	3	—	2	2
Aconite ...	1	—	3	—	2	1
Aconite and morphine ...	1	—	—	—	—	—
Ammonia ...	14	24	7	21	4	15
Amylene hydrate ...	6	—	—	—	—	—
Anilin oil ...	—	1	—	—	—	—
Antimony ...	1	1	—	—	—	—
Antipyrin ...	1	1	—	—	—	—
Arsenic ...	4	8	3	3	1	8
Arsenic and nux vomica	—	—	—	—	—	—
Atropine ...	—	—	—	—	1	1
Barium chloride ...	1	—	—	—	—	—
Belladonna ...	4	6	3	7	4	2
Belladonna and aconite...	—	1	3	1	—	—
Belladonna and chloroform	—	—	1	—	—	—
Belladonna and oxalic acid	—	—	—	1	—	—
Belladonna and strychnine	—	—	—	—	1	—
Benzene ...	—	—	2	—	—	1
Camphor ...	—	—	—	—	—	2
Camphorated oil ...	—	2	—	1	2	—
Cantharides ...	—	—	—	1	—	—
Carbolic acid ...	15	53	13	52	10	43
Chloral ...	3	—	4	1	3	—
Chloral and morphine ...	1	—	—	—	—	—
Chlorine ...	—	—	1	—	—	—
Chlorodyne ...	—	—	—	—	2	1
Chloroform (not for operation)	1	1	2	2	2	3
Chloroform and pot. cyanide ..	—	1	—	—	—	—
Cocaine ...	1	—	—	—	—	—
Colza oil ...	—	—	1	—	—	—
Copper sulphate ...	—	—	—	1	—	—
Creosote ...	2	—	1	3	1	2
Cresoline ...	1	2	1	—	—	—
Cresylic acid ...	—	—	1	—	—	1
Easton's syrup ...	—	—	1	—	—	—
Eserine ...	—	—	—	—	—	—
Eucalyptus oil ...	—	—	1	—	—	—
Formalin ...	—	—	—	—	1	—
Hydrochloric acid...	16	101	8	47	5	32
Hydrocyanic acid...	2	22	4	17	2	12
Hyoscyamus ...	—	—	1	—	—	—
Iodine ...	—	1	2	1	2	1
Izal... ..	1	—	—	—	2	—
Jeyes' fluid ...	—	1	—	1	—	—
"Lead" ...	—	—	—	—	1	—
Lead lotion ...	—	—	—	1	1	—
Lead plaster ...	—	—	1	—	—	—
Lysol... ..	2	2	4	3	—	1
"Mercurial poisoning" ...	—	—	—	—	—	—
Mercury perchloride ...	1	10	1	6	2	4
Methyl alcohol ...	—	—	—	—	3	—
Muscarine ...	1	—	—	—	—	—
Nicotine ...	—	5	1	3	—	3
Nitric acid ...	2	2	5	3	1	2
Nitrobenzene ...	1	—	1	—	—	—
Opium, laudanum, & morphine	43	40	25	30	11	14
Oxalic acid ...	12	83	10	38	2	26
Paraldehyde ...	—	—	—	—	—	—
Paregoric ...	—	—	—	—	1	—
Phosphorus ...	1	5	—	2	2	1
Potassium bichromate ...	—	1	1	—	—	1
Potassium bromide ...	—	—	1	—	—	—
Potassium chlorate ...	1	—	—	—	—	—
Potassium chloride ...	—	—	—	—	—	1
Potassium cyanide ...	6	31	5	22	2	16
Potassium oxalate ...	—	1	1	2	1	—
Potassium permanganate ...	—	1	—	—	1	—
Quinine ...	—	—	1	1	1	—
Sanitas ...	—	—	1	—	—	—
Soap liniment ...	—	—	—	—	1	—
Soda, caustic ...	1	—	5	—	1	—
Sodium nitrate ...	—	—	—	—	2	—
Squill, tincture ...	1	—	—	—	—	—
Strychnine and nux vomica	10	14	3	6	8	11
Sulphonal ...	2	—	—	—	1	1
Sulphur chloride ...	—	—	—	—	—	—
Sulphur dioxide ...	—	—	—	—	1	—
Sulphuric acid ...	4	4	3	4	5	2
Thymocresol ...	—	—	—	1	1	—
Trichlorethylene ...	1	—	—	—	—	—
Trional ...	—	—	—	2	—	—
Turpentine and liniment	1	—	2	1	2	—
Veronal ...	18	12	17	7	5	5
Veronal and morphine ...	—	—	1	—	—	—
Wintergreen oil ...	—	—	1	—	—	—
Zinc sulphate ...	—	—	—	—	1	—
Kind not stated ...	39	65	23	36	23	26



## Legal Reports.

**Drug-stores Debt.**—At Shoreditch County Court on March 12, Arthur Berton, Ltd., 15-17 Worship Street, London, E.C., sought to enforce payment of 4*l.* 14*s.* 2*d.* from Lewis's Drug Stores, 27 Glenthorne Road, Hammersmith, owned by Mr. John Emmanuel Lewis. A representative of the plaintiffs appeared, and said this was a prosperous business, and the defendant had offered to pay 1*l.* down and 2*l.* a month. Judge Cluer agreed to an order being made in these terms.

**Electric Batteries.**—At the City of London Court on March 7, before Judge Atherley-Jones, Mr. Harry Harrison, trading as the Whitworth Electric Lamp Co., Chiswick, recovered the sum of 35*l.* and costs for Midget electric batteries supplied to the Premier Stores, 165 Fleet Street, London, E.C. Defendant said these were not Jupiter batteries according to contract, and plaintiff said no guarantee was given with the batteries, as the quality of all the chemicals used had depreciated since the war.

**Discrepancies in Accounts.**—In the City of London Court on March 12, Pinchin, Johnson & Co., Ltd., oil-merchants, 26 Bevis Marks, London, E.C., claimed from Montgomery & Co., Coventry, 2*l.* 7*s.*, balance of account for varnishes supplied and empties not returned. Defendants offered 1*l.* in settlement, but admitted that their books did not agree with plaintiffs' statement of what was owing for varnish and empties. The plaintiffs' books were also said to show discrepancies, and Judge Atherley-Jones, who thought the parties should have come to some settlement, gave judgment for plaintiffs, with costs.

## New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

**TEXTINE, LTD. (P.C.).**—Capital 1,000*l.* Objects: To acquire the proprietary cleansing preparation called "Textine," and to carry on the business of manufacturing, agricultural, consulting, wholesale and general chemists. R.O., 95 Fonthill Road, Finsbury Park, London, N. 4.

**ORELA, LTD. (P.C.).**—Capital 1,000*l.* Objects: To carry on the business of soap manufacturers, oil, unguent and ingredient manufacturers, manufacturing and general chemists and druggists, and to enter into an agreement with Leon Mirener. R.O., 37 Berners Street, London, W. 1.

**MAJON, LTD. (P.C.).**—Capital 100*l.* Objects: To carry on business as patent-medicine vendors, dealers in surgical and druggists' sundries, syphon, gasogene, bottle, jar and receptacle manufacturers, provision dealers, wine and spirit merchants, etc. R.O., Newton Chambers, 43 Cannon Street, Birmingham.

**DECOLOURIZER CO., LTD. (P.C.).**—Capital 1,500*l.* Objects: To carry on business as manufacturing chemists, druggists, carbonisers of any substances and dealers in residual products, therefrom, manufacturers of and dealers in deodorising and filtering materials, etc. Solicitor: C. J. E. Hall, 56a Mosley Street, Manchester.

**FOSTER CLARK (AUSTRALIA), LTD. (P.C.).**—Capital 25,000*l.* Objects: To carry on business as grocers' sundriesmen, manufacturers and importers of and dealers in provisions, meat extract, essences, jellies, gelatine, glucos, essential oils, fruit juices, jams, food, beverages, soups, cordials, pickles, etc. R.O., Hart Street, Maidstone.

**RUSTLESS IRON (COWPER-COLES PROCESS), LTD. (P.C.).**—Capital 5,500*l.* Objects: To carry on any business connected with the manufacture of rustless iron and other metals, and the development of processes for preventing rust and corrosion, and to carry on the business of mechanical and electrical engineers, metallurgists, chemists, etc.

**PONDUT ESTATES, LTD. (P.C.).**—Capital 225,000*l.* Objects: To acquire any properties suitable for the production of rubber and other produce, and to carry on the business of growers of trees yielding rubber, gutta-percha, coffee, tea, cocoa, cinchona, camphor, coconuts, oils, gums, essences, perfumes, etc. R.O., 77 Cannon Street, London, E.C.

**HEATHS (LIVERPOOL), LTD. (P.C.).**—Capital 2,000*l.* Objects: To carry on business as pharmaceutical, analytical manufacturing and consulting chemists, druggists, dyers, oil- and colour-men, manufacturers of, agents for, and dealers in pharmaceutical, medicinal, chemical, industrial, and other preparations, etc. The first directors are E. N. Heath (permanent) and J. E. Brownbill.

**OZONE PREPARATIONS CO., LTD. (P.C.).**—Capital 3,000*l.* Objects: To take over the business of manufacturers of and dealers in ozone preparations, accessories for the same, and apparatus for generating, spraying, and inhaling ozone carried on by Hester Stewart at 152 Fulham Palace Road as the "Ozone Preparations Co." R.O., 152 Fulham Palace Road, Hammersmith, London, W.

**C. C. WAKEFIELD & CO., LTD. (P.C.).**—Capital 250,000*l.* Objects: To take over the business of oil-refiners, manufacturers of and dealers in lubricating oils and appliances, etc., carried on by Sir Chas. C. Wakefield, Bt., at 30-32 Cheapside, E.C., and elsewhere, as "C. C. Wakefield & Co."; also to carry on the business of exporters and importers of lubricants, chemicals, oils, etc.

**IMPREGNATED BOX CO., LTD. (P.C.).**—Capital 100,000*l.* Objects: To carry on business as manufacturers of and dealers in boxes and receptacles (whether made of paper, cardboard, strawboard, papier-maché, wood-pulp, or other substance, medicated or non-medicated) for containing goods or liquids of all kinds, manufacturers of and dealers in pharmaceutical and other preparations, etc. Solicitors: James Mellor & Coleman, 12 Coleman Street, London, E.C.

**LONDON TEMPERANCE HOSPITAL** (word "Limited" omitted from title by licence of the Board of Trade). Registered as a company limited by guarantee (not formed for the purpose of profit), with not more than 300 members, each liable for 1*l.* in the event of winding-up, to continue the work carried on at Hampstead Road, London, N.W., by the London Temperance Hospital, founded in 1873. The first directors are: Sir T. Vezey Strong, P.C., E. Crawshaw, H. E. Wood, J.P., W. W. Parkinson, R. A. Penney, G. Curzons, J.P., G. Blaikok, J.P., F. Dymond, W. Robertson, J.P., and R. L. Coad. R.O., Hampstead Road, London, N.W.

**BOOTS CASH CHEMISTS (EASTERN), LTD.**—The directors announce an interim dividend of 12½ per cent. per annum (7½*d.* per share), less tax, on the ordinary shares for quarter.

**COMPANIES WHICH MAY BE WOUND UP.**—The undermentioned companies will, unless cause is shown to the contrary, be struck off the register and the companies dissolved three months after January 18: Bakelite Co., Ltd.; Dr. De Boi Co., Ltd.; Oil Nut Kernel Extractors, Ltd.; Reversible Bifocal, Ltd.; and Tropical America Copra and Produce, Ltd.

**GERMAN CHEMICAL DIVIDENDS.**—The following is a comparison for three years of the dividends that have been paid by various chemical-works in Germany:

	Dividends (per cent.) for		
	1914	1915	1916
H. & E. Albert, Amörieburg ... ..	15	28	30
Akt.-Ges. für Anilinfabrikation, Berlin	16	18	18+7
Bad. Anilin- und Sodafabr., Ludwigshafen ... ..	19	20	20+8
Bayer Co., Leverkusen ... ..	19	20	20+8
Dr. H. Byk, Berlin ... ..	0	0	5
Vereinigte Chemische Werke, Charlottenburg ... ..	24	27	27+18
Gehe & Cie., Dresden ... ..	12	14	20
H. von Gunbora, Emmerich ... ..	7	8	10+50 <i>m.</i>
Goldenberg, Geromont & Cie., Winkel ...	14	20	20+500 <i>m.</i>
Th. Goldschmidt, Essen ... ..	8	12	12
Chem. Werke, Grenzach ... ..	—	—	6
Chem. Fabr. Griesheim, Elektron ... ..	14	16	16+60 <i>m.</i>
Chem. Fabr., Grünau ... ..	7½	7½	10
Handelsgesellsch. Deutscher Apotheker	6	6	6
Paul Hartman, Heidenheim ... ..	6	12	12
Heine & Cie., Leipzig ... ..	10	8	10
Chem. Fabrik, Hellenberg ... ..	9	9	10
Chem. Fabr. von Heyden, Radebeul ... ..	12	16	25
Gebr. Heyl & Cie., Charlottenburg ... ..	5	4	4
Höbster Farbwerke ... ..	20	20	25
Kalle & Cie., Bielefeld ... ..	9	10	10
Lubezynski & Cie., Berlin-Lichtenberg ...	10	10	10
Lingner Werke, Dresden ... ..	12	12	15
Verein. f. Chem. Ind., Mainz ... ..	15	30	25+5
Verein. Chem. Fabr., Mannheim ... ..	12½	20	20+25 <i>m.</i>
Medizin Warenhaus, Berlin ... ..	6	8	10
Moritz Milch & Cie., Posen ... ..	10	12	12
Von Poucet, Friedrichshain ... ..	6	6	7
J. D. Riedel, Berlin ... ..	8	10	12+6
Sacharinfabr. Fahlberg, List & Cie. ... ..	8	10	12
Blechemballage F. O. Schäfer, Berlin ...	8	8	10
Chem. Fabr. A. E. Schering, Berlin ... ..	11	12	16
Schulke & Mayr, Hamburg ... ..	8	8	8
Fritz Schulz, jun., Leipzig ... ..	12	18	23
Sieco Akt.-Ges., Berlin ... ..	—	10	—
Theodor Teichgraber, Berlin ... ..	—	5	5+1
Georg Wenderoth, Kassel ... ..	4	2	6
Weiler-ter-Meer, Urdingen ... ..	8	12	12



## Marriages.

**GIBSON—PHILLIPS.**—At St. Peter's Collegiate Church, Wolverhampton, on March 4, by the Rev. Prebendary Penny, assisted by the Rev. H. S. Astbury, M.C., C.F., brother-in-law of the bridegroom, Captain Harold Deighton Gibson, M.C., youngest son of Mr. Frederic John Gibson, chemist and druggist, to Doris Ethel, younger daughter of Mr. C. J. Phillips, Wolverhampton.

**HUMPHREY—HEWETT.**—At St. Raphael's Church, Surbiton, on March 9, Second-Lieutenant Norman Humphrey, late South Wales Borderers, youngest son of Mr. John Humphrey, Ph.C., 65 Park Road, Battersea Park, London, S.W., to Kathleen, younger daughter of the late Mr. J. S. Hewett, Exeter.

**POTTER—RILEY.**—At St. Mary's Church, Alsager, on February 23, John Lowthian Potter, chemist and druggist, to Clara, widow of Mr. Frederick Riley, Sycamore House, Alsager.

## Deaths.

**DICKINS.**—At 47 Greenbank Road, Tranmere, Birkenhead, on March 2, Mr. Benjamin Dickins, chemist and druggist, aged eighty.

**HOOKES.**—On February 8, Mr. Robert Thomas Hookes, chemist and druggist, 48 Acton Street, London, W.C., aged sixty-eight.

**TURNER.**—At Stone Street, Cranbrook, on March 4, Mr. John Turner, chemist and druggist, aged seventy-two. Mr. Turner was registered as a chemist and druggist in 1870, and was one of the longest-established tradesmen of his town.

**WHITE.**—As briefly recorded in our last issue (p. 40), Mr. William Henry White, chemist and druggist, died at Rochdale on February 21. Mr. White's apprenticeship was served with J. J. Thomas & Son, chemists, Rochdale. He later became the manager, and subsequently the proprietor, of a business at Copley Road, Doncaster. As the holder of a diploma from the Spectacle-makers' Company, he was a Freeman of the City of London. He was also a member of the Camera Club and the Scientific Society of Doncaster, and from 1914 to 1916 was Chief Ranger of the "Don" Court of Foresters.

**WOOLLEY.**—At Fairhill, Kersal, Manchester, on March 12, Mr. George Stephen Woolley, Ph.C., chairman of James Woolley, Sons & Co., Ltd., aged eighty-one. We learn with deep regret of the death of Mr. G. S. Woolley, one of the veterans of the wholesale drug-trade. Mr. Woolley was born on January 1, 1837, the year in which Queen Victoria's eventful reign began. He was educated at Knutsford and in Germany. After serving an apprenticeship to his father at Market Street, Manchester, and gaining further experience in the laboratory of the late F. C. Calvert, he passed the Minor examination in 1857 and the Major in the following year.

In that year his father, who had extensively developed a business originally founded in 1796, died, and Mr. Woolley succeeded him. In 1868 he was joined by a brother, Mr. Hermann Woolley, Ph.C., and four years later another brother, Mr. Harold Woolley, Ph.C., was taken into partnership, together with Mr. C. A. Johnstone, the title of the firm being changed to James Woolley, Sons & Co. In the same year (1872) the premises in Swan Court, behind the Market Street establishment, were partly destroyed by fire, and the manufacturing departments were in consequence removed to new premises in Knowsley Street, Cheetham, where laboratories and drug-mills were erected. The trade increased so rapidly that in 1879 an additional laboratory was built and further machinery put down. In 1891 Mr. E. J. Woolley, Ph.C., a son of Mr. G. S. Woolley, joined the firm, and in September 1892 the present handsome block of buildings at Victoria Bridge was opened for the ever-growing business. Since then additions have taken place, and the various departments are planned in every detail for convenience in carrying out their special requirements. In 1895 a limited company was formed, the original directors being three partners of the old firm; in 1907, Mr. W. Lane, chemist and druggist, the late Mr. E. S. Johnstone, Ph.C., Mr. J. H. Franklin, Ph.C., and Mr. A. C. Vallance, Ph.C., joined the directorate. On January 25, 1908, the fiftieth anniversary of Mr. Woolley's assuming the management of the business, he was presented with his portrait in oils, subscribed for by two hundred and sixty-seven members of the company's directorate and staff; and in May of the same year he invited his co-directors and their employés to a picnic in the Lake district, the party numbering about four hundred. For the long period of twenty-one years Mr. Woolley was President of the Manchester Pharmaceutical Association, which in 1903 presented him with an illuminated address, and in 1912, on his retirement, with a silver loving-cup. Prior to accepting the presidency he served the Association in another capacity, having been elected Treasurer in 1868. For two periods—1870-72 and 1878-88—Mr. Woolley was a Member of Council of the Pharmaceutical Society; and he has held public offices in Manchester with the greatest acceptance. An assiduous worker, with sound knowledge of any business that he undertook, his counsel was as highly valued by his colleagues as it was freely given. The services that he rendered to pharmacy in Manchester and the district cannot easily be estimated; and by all who came within the sphere of his genial influence he will be remembered with affectionate regard. In the words of one of the speakers at the Manchester Association's presentation-meeting in 1912, Mr. George Stephen Woolley "has always been characterised by intense loyalty to his colleagues."

### Died on Service.

**CLARK.**—Captain Charles Inglis Clark, A.S.C., has died of wounds received on service. Captain Clark, who was a Bachelor of Science, was the son of Dr. William Inglis Clark, Ph.C., a director of Duncan, Flockhart & Co., Edinburgh.

**JUBB.**—Private George Jubb, Northumberland Fusiliers, has been killed in action. Private Jubb enlisted in 1916 from the staff of Humphrey Davy's Executors, chemists, Rotherham.

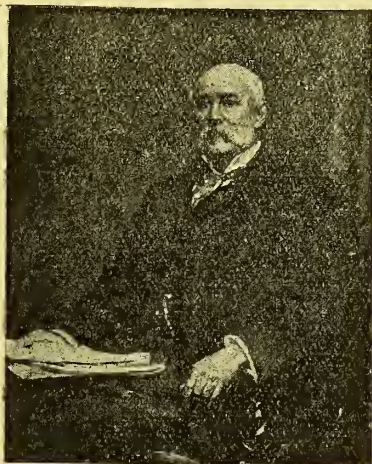
**MITCHELL.**—Private Daniel Smithies Mitchell, Manchester Regiment, is reported as killed on service, aged nineteen. Private Mitchell, who was apprenticed at the Moss Side, Manchester, branch of Boots, Ltd., had been missing for some months.

## Wills.

**MR. JOHN EDWARD ALLENBY, Ph.C., Helmsley, who died on December 30, left estate valued at 2,095*l.* 7*s.* 1*d.* gross, with net personalty 1,486*l.* 14*s.* 7*d.***

**MR. EDWARD WIMFORY, of E. Wimfory & Co., druggists' sundriesmen, 131 and 132 Bunhill Row, London, E.C., who died February 12, left estate valued at 4,421*l.* 0*s.* 7*d.* gross, with net personalty 3,914*l.* 18*s.* 6*d.***

**LIEUT.-COLONEL CLIFFORD PROBYN, V.D., D.L., J.P., 49 Northgate, Regent's Park, London, N.W., of Hooper, Struve & Co., Ltd., chemists and aerated-water manufacturers, Pall Mall East, who died on February 10, left property of the value of 66,528*l.* 3*s.* 5*d.*, the net personalty being 66,501*l.* 18*s.* 5*d.* The testator bequeaths legacies of 500*l.* each to the Church Army, the Salvation Army, the Church of England Homes for Waifs and Strays, Dr. Barnardo's Homes, and the Pattern Makers' Co.; also the following legacies to persons in the employ of Hooper, Struve & Co.: 300*l.* to Mr. Miller, 250*l.* each to Messrs. Keen, North, Young, Allen, and Myers, and 100*l.* each to Messrs. Barnard and Smith. He also gives 110*l.* for the purchase of ten rings for ten friends. He further leaves 1,000*l.* and a sum producing 1,500*l.* a year in trust for his son; the income from 1,000*l.* to each of his three brothers and to each of the three daughters of his brother Edgar; 100*l.* each to the sons of Thomas Roderick, late of Pontypool, to whom he was apprenticed; and a few small legacies. The residue of the property he leaves in trust for his son.**



MR. G. S. WOOLLEY.



## Trade Notes.

**CARROTINE BUTTER-COLOURING.**—Mr. John W. Dennis, chemist, Louth, announces that the wholesale and retail prices of Carrotine butter-colouring have been increased. The retail prices are now 7½d., 1s. 3d., and 2s. 6d.

**THE BRITISH CHEMICAL TRADES ASSOCIATION**, the formation of which was announced in our last issue, draws attention to its objects in our advertisement columns. Mr. S. J. C. Mason, c/o The Fabra Co., Ltd., 24 Minorics, London, E. 1, is the Secretary, to whom applications for membership should be addressed.

**RENNASE.**—Armour & Co., Queen's House, Kingsway, London, W.C. 2, call attention to Rennase, a milk-curdling ferment which is recommended as equal in activity to standard rennet. This is a product which is much wanted at the present time by cheese-makers. Particulars as to use and prices are given in an advertisement in this issue.

**NATURE'S HERBAL REMEDIES.**—In the advertisement in the *C. & D.*, March 2, of the revised prices of Nature's Herbal Remedies, made by O. Phelps Brown, 60 Great Russell Street, Bradford, an error occurred in inserting the words "20 per cent. discount" as that had already been deducted from the minimum wholesale prices. The extra discounts as mentioned are, however, allowed.

**REGISTER OF OVERSEAS BUYERS.**—Bemrose & Sons, Ltd., Derby, send us a copy of the first edition of the Register of Overseas Buyers, which contains a list of the principal importers in Allied and neutral countries, geographically arranged under the class of goods they import. The volume also includes interesting articles on overseas trade, written under authority of Chambers of Commerce abroad, and many hints are given of how to extend trade in Colonial and foreign countries. The causes which have hitherto impeded British trading are also dealt with. The Register is published at a guinea.

**"THE PHOTOGRAPHIC INDUSTRY OF GREAT BRITAIN"** is the title of a beautifully produced volume issued by the British Photographic Manufacturers' Association, Ltd., Sicilian House, Southampton Row, London, W.C. The book is to be circulated in India, the Overseas Dominions, and foreign countries, with a view of developing the export trade in British photographic materials. The important sections of the work are printed in English, French, Spanish, and Russian. The introductory matter shows that many of the important discoveries and inventions in photography are of British origin, and this is followed by a buyers' guide to the goods manufactured by the forty members of the Association. The book is to be supplied to large Overseas purchasers of photographic goods.

**PRIZE FOR A PHRASE.**—In the Jubilee Number of Ayrton's Supplement (Ayrton, Saunders & Co., Ltd., Liverpool) an offer was made of a prize of 5*l.* for the best quotation from a standard author appropriate for the Jubilee year of the house, and suitable for printing under the dates "1863 to 1918" in the company's advertisements during the next twelve months. The announcement was to have been made in the *C. & D.*, February 23, but, as stated last week, the large number of competitors had made the award of the prize one of more than ordinary difficulty. The result, however, that the adjudicators have arrived at is to award the prize to Dr. A. J. Barnes, The Harcourt Pharmacy, Harcourt Road, Dublin, for the phrase, "Still achieving, still pursuing."

**MEND-A-TEAR.**—The Leicester Rubber Co., Ltd., 18 Granby Mills, Leicester, are introducing to chemists the John Bull Mend-a-Tear, a novelty which we think will find ready acceptance with the public. Briefly, the Mend-a-Tear outfits provide a ready means of mending any kind of tear in waterproof or other garments. The Mend-a-Tear material is provided with an adhesive surface. To use it for repairing a garment a suitable piece of the fabric is placed on the inner side of the torn fabric, which is then pressed with a hot iron. This causes the Mend-a-Tear to adhere, and forms a perfect repair which need only have occupied a few minutes to carry out. The outfits sell at 1*s.* each, and are either black or khaki, each outfit containing sufficient material for a number of repairs. Other uses to which Mend-a-Tear can be put are for re-fixing seams or turn-up edges, and for repairing leather gloves, umbrellas, goloshes, etc. We understand that an advertising campaign is being started to make Mend-a-Tear known to the public, so that chemists are likely soon to receive requests for this useful article. Particulars as to advertising matter can be obtained from the inventors.

DISUSED CORKS soaked in paraffin make good fire-lighters.

## Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," February 13, 1918.)

"MAD HATTER"; for perfumery, etc. (48). By Breidenbach & Co., 48 Greek Street, W. 1. 380,824.  
"WILLOCINE"; for perfumery, etc. (48). By W. E. Lowe & Co., Ltd., 8 Stafford Street, Old Bond Street, W. 1. 381,107.  
"GOVALIA"; for perfumery, etc. (48). By Vinolia Co., Ltd., 37 and 38 Upper Thames Street, E.C. 4. 381,125.

(From "The Trade-marks Journal," February 20, 1918.)

"CRATSTICK"; for an insect-destroyer (2). By T. H. Gardner, 60 Streatham Hill, S.W. 2, and H. J. Carson, 67 Barcombe Avenue, Streatham Hill. 380,752.  
"AFISILIA"; for chemicals (2). By The Yalding Manufacturing Co., Ltd., Hampstead Lane, Yalding. 380,973.  
"BONOVIN BRAND MEDICATED WINE"; for a medicinal wine (3); "BONOVIN BRAND WINE"; for a wine (43). By Bonovin, Ltd., 59 New Oxford Street, W.C. 1. 379,172/3. (Associated.)  
"CHILBIO BRAND CHILBLAIN REMEDY"; "SOMNOLOS BRAND SEDATIVE"; "THERMION BRAND STIMULANT REMEDY"; for medicinal chemicals (3). By S. F. Body, 167 High Street, Southend-on-Sea. 380,789/791/792.  
"VYNORA BRAND GLYCERIN SUBSTITUTE"; for goods (3). By Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool. 380,858.

"SANOLINE"; for food ingredients (42). By F. and E. Dransfield, 45 Parkfield Mount, Beeston, Leeds. 380,480.  
"FRUITA BACHETOIR"; for non-intoxicating beverage preparations (42). By E. Bachelard, 8 Rue Desnouettes, Paris. 381,068.  
"MARZAL"; for goods (47) and for perfumery, etc. (48). By T. B. Rowe & Co., Ltd., Ferry Lane, Brentford. 381,014/5.  
"DELAFINE"; for perfumery, etc. (48). By Erasme Delafaye Fils, 4 Beaufort House, Beaufort Street, Chelsea, S.W. 3. 379,770.  
"PIFINE"; for perfumery, etc. (48). By Rajeen Perfumery Co., 89 Farringdon Street, E.C. 4. 380,802.  
"EMEROL"; for toilet oils (48). By Sterns, Ltd., 16 Finsbury Square, E.C. 2. 381,056.  
"FLUOLINE"; for all goods (48). By Eau de Cologne Fabrik Voorheen J. C. Boldoot, Langestraat 51, Amsterdam. 381,156. (Associated.)  
"HOURI"; for perfumery, etc. (48). By Yardley & Co., Ltd., 105 Carpenter's Road, Stratford, E. 15. 381,217.

(From "The Trade-marks Journal," February 27, 1918.)

"FLAG" under picture of same, for carbolic soap (2); "PYRAMID," pyramid-shaped device, and "PYRAMID BRAND" with device, for edible fats (42). By J. Crossfield & Sons, Ltd., Bank Quay, Warrington. 380,834/856/856. (Associated.)  
"UCCO"; for medicinal chemicals (3). By Hardisty & Co., Ltd., 20 Cross Street, Manchester. 381,007. (Associated.)  
Device of woman with tub of water and letterpress in Spanish, for medicinal chemicals (3), and for perfumery, etc. (48); "CAT'S PAW" for soap (47). By Lever Bros., Ltd., Port Sunlight. 381,163/165 (associated), 380,896.  
"CARCINOMINE BRAND CANCER REMEDY"; for medicinal chemicals (3). By P. Letondy & Co., 53 Chandos Street, W.C. 2. 381,548.  
"TRACODA" for food-substances (42); "STRATHCODA" for food-substances (42), and for goods (47); "MYR" for goods (47), and for perfumery, etc. (48). By J. H. Ironmonger, Ltd., 20 Eastcheap, E.C. 3. 380,709/717/718/722/723. (Associated.)  
"YU-YENSA"; for perfumery, etc. (48). By Sillwood Manufacturing Co., Ltd., 21 & 22 Sillwood Street, Brighton. 380,842.  
"STRIPES" under device; for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 381,395.

(From "The Trade-marks Journal," March 6, 1918.)

"CHLORANTINE" for coal-tar colours (1); "SEPTACROL BRAND- DISINFECTANT" for disinfectants (2); "FRINE" for all goods (4). By Society of Chemical Industry in Basle, 141-227 Klybeckstrasse, Basle. 376,141; 379,676; 381,403.  
"KIMBO" for chemicals (1); "ARROW" under picture of same, for glycerin (4). By C. Thomas & Bros., Ltd., Bristol. 381,310; 380,965. (Associated.)  
"THORACICOSE"; for horse-medicines (2). By G. Jones, 4 Holford Square, W.C. 1. 380,798.  
"ADGESTEN BRAND CURATIVE MIXTURE FOR INDIGESTION AND DYSPEPSIA AND GASTRIC TROUBLE," and "ASAINA BRAND, A COMPOUND FOR COUGHS, BRONCHITIS, AND ASTHMA"; for medicines (3). By F. H. Clarke, 17 Rockmount Road, Upper Norwood, S.E. 19. 376,768/9.

## Information Department.

### INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

24/39. James' "Diamond" ointment.	23/72. Carlton's condition powder.
25/59. Elixsen.	26/42. "Chloracene."
23/72. Holloway's arnica plaster.	27/43. Brindley James' hygienic supporter.
26/68. Propolasticene.	



## Observations and Reflections.

By Xrayser II.

### There is Nothing like Leather,

and it is quite natural that professional teachers of pharmacy should welcome the President's curriculum scheme. That it is from the scholastic point of view a good scheme I am willing to admit, but there is another point from which it shows a different aspect. The crying need of qualified assistants is what is just now most embarrassing pharmacists, and it is a need likely to increase rather than diminish. Manifestly any scheme which increases the cost of qualification is inopportune, to say the least of it, at such a time. Our existing system may not be an ideal one, but it is the best we can afford at present, and it supplies as good men as are required for our present position. As part of a larger scheme which should promise an improvement of our position and an enlargement of our true sphere of labour, the proposed curriculum might be welcomed by us all, but standing alone it will not appeal to the practical man.

### Mr. Woolcock's Resignation

will excite mixed feelings among the rank-and-file of the Society, but a feeling of relief will probably predominate. It was natural that we should take a certain pride in the possession of a Secretary of such exceptional gifts, but these very gifts were in a Secretary somewhat of an *embarras de richesses* both to himself and to us. It is no injurious reflection on Mr. Woolcock to say that he was too big a man for his place; the weakness of the Council was at once an invitation and an excuse to overflow into other channels of activity than those proper to his office, and he thus came, without any fault of his own, to be regarded by most pharmacists as one of the sons of Zeruiah. We are in many respects greatly indebted to Mr. Woolcock, and we are glad to see him transferred to an office in which he will probably be happier, because in it he will undoubtedly find more legitimate scope for his powers. Our appreciation of his services to us was at times "quicken'd by touches of transporting fear" as to what he might commit us to, but we shall follow his future course with unqualified interest and unalloyed good will.

### "Professional Chemist,"

which seems to be the style affected by members of the Institute of Chemistry (it occurs twice in your brief summary of Sir James Dobbie's address as retiring President), is not a very happy title. In the first place it is extremely vague. "Professional" means so many things. There is the professional as distinguished from the amateur, as the professional cricketer, the professional actor, even the professional thief. Such a term tends to disparaging uses, and we have the professional politician and the professional beauty. Used substantively it distinguishes the mercenary sportsman from the gentleman. On the other hand, it is a term to which, in the strict sense in which it is used of the three professions of divinity, law, and physic, these modern claimants to it have no right; we pharmacists have a much better, for apothecaries were ranked with professionals at a time when their relation to physic was virtually what ours is now. Probably Sir James Dobbie uses it as indicating those trained in the theoretic or scientific part of an occupation, as distinguished from the merely mechanical; but if so he has been anticipated by gardeners and other craftsmen. Altogether one does not wonder to find these gentlemen anxious to drop the adjective, in this case certainly the enemy of the noun, and arrogating to themselves the title of "Chemist" pure and simple.

### Mr. Bernard Ellis

does the Pharmacists' Trade Union idea no good by his extravagant and illiberal scheme as outlined in his paper at Sheffield, a scheme which includes most of the more objectionable features of trade Associations, and especially those which operate in restraint of trade. Mr. Ellis, as is but natural, aims rather at a

sort of craft guild (out of which trade unionism emerged) than at what is usually understood by a trade union today, for the original intention and chief work of the latter is the protection of the workman against the employer, which is not at all what we are in need of. We might indeed, regarding ourselves as employes of the State, combine in a real trade union to secure better treatment under the National Insurance Act, but this is only a minor and almost accidental feature of Mr. Ellis's scheme, and to call an Association with such wide and diverse functions as he contemplates a trade union is to use the term in a novel sense. This is not a criticism of the scheme itself; it needs none, for it stands self-condemned by the fact that it is utterly impracticable—a wild-cat scheme which cannot possibly materialise on this side of Utopia. And what, as I have before asked, of our existing Associations? Any new scheme that would come within the sphere of practical politics must take account of them.

### The Sugar-beet Industry

is one of the indirect results of the war. It was the shortage of sugar in France caused by our blockade of French ports in the Napoleonic wars that led to its establishment in that country, just as our present shortage is causing us to set up factories here. Marggraf found sugar in beet as early as 1747, but the commercial application of this discovery was due to his pupil Achard and others towards the close of the century. Achard's process was not entirely satisfactory, and it was not until 1825 that improved methods established the industry on a permanent basis, but this was sure to follow sooner or later, and the most extravagant hopes of the pioneers have since been realised. Coleridge, writing from Göttingen to his friend Poole, towards the close of his first visit to Germany in 1799, tells him what these hopes were. He says, "Sugar from *bete*, oh! all Germany is mad about it. I have seen the sugar sent to Blumenbach from Achard the great chemist, and it is good enough. They say that an hundred pounds weight of *bete* will make twelve pounds of sugar, and that there is no expense in its preparation."

### The Scarcity of Cloves

carries me back to one of the darkest passages in our commercial history. Though said not to be indigenous to the island, it was formerly from the clove-parks of Amboyna that our cloves chiefly came; it was for trade with this and the other "spice islands" of the Far East that our East India Company was first formed; and it was the tragedy of Amboyna in 1623 that virtually closed this region against us, and incidentally, by diverting the Company to the mainland of India, led to the acquisition of our Indian Empire. The Portuguese, who were the pioneers of European overseas trade with the East, had been to a great extent ousted from the Malayan Archipelago by the Dutch when we appeared on the scene, thus turning them both against us, though the rivalry between themselves by no means ceased. In 1623 we had, after varying good and ill fortune, succeeded in planting several factories here and there, and among others one at Amboyna, under Gabriel Towerson, a trusted official of the Company, though not quite of the same calibre as Downton, Courthope, Jourdain, or some other of our early trading voyagers. The Dutch were in command of the island, the Governor being one Van Speult. It was the curiosity of a Japanese mercenary who was caught spying on the Dutch that caused the trouble. He was apprehended by Van Speult, and under torture "confessed" to having been set on by the English, who were plotting to capture the island. The idea was absurd on the face of it, but Van Speult seems to have been seriously alarmed. He seized the English agent and his staff, and after forcing false confessions from them by unbearable tortures put them all to death but two (Towerson and nine others suffered the extreme penalty); in spite of their persistent protestations of innocence, and without a tittle of real evidence against any of them. Bitter was the indignation roused in England by these atrocities, but the weak James did nothing effectual to enforce retribution; this was reserved for Cromwell, thirty-five years afterwards.



**BRONCHITIS, ASTHMA, COUGHS,  
INFLUENZA, &c.**

## "SANITAS-INHALANT"

Is now being advertised, and should be stocked  
by all Chemists.

**2s. 6d. BOTTLES.**

*Most Effective Remedy for all Lung and  
Throat Affections.*

**The SANITAS CO., Ltd.,  
Limehouse, LONDON, E. 14.**

## BRITISH ABSOLUTE ALCOHOL

**Jas. Burrough Ltd.** *D. I. Cale Distillery, Hutton Rd.,  
LAMBETH, S.E. 11*

*"Pears"*

TRANSPARENT SOAPS are now  
all protected at

## FACE VALUE

No. 120, UNSCENTED - **6d.** Per Tablet.

Wash Balls	....	} No. 1 size, <b>1/-</b> No. 2 size, <b>1/6</b> No. 3 size, <b>2/6</b>
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Transparent Shaving Cakes		
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We ask the kind co-operation of  
all our friends in the maintenance  
of these prices.

**A. & F. Pears Ltd.** *71-75 New Oxford St.,  
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## WATER GLASS

Best value. Largest packers.

## SEED DRESSING

Carboized. Liquid Our formulæ  
and labels. Sulph. Copper, &c.

**TOMLINSON & HAYWARD, Ltd.  
LINCOLN.**

## PATENTS AND TRADE MARKS.

There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting an efficient agent, who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.

56 Ludgate Hill, London, E.C. 4.

**REGINALD W. BARKER.**

**A**n announcement of particular  
interest to you appears in  
this issue on page xxviii.

*Fletcher's Concentrated Liquors*  
offer a perfect alternative to the discarded  
**B.P. Tinctures and Syrups.**

**FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.**

## Editorial Articles.

### Society Affairs.

THE Pharmaceutical Society at the present time is passing through a crisis the result of which cannot be foretold with certainty. The difficulties are due in the main to the resignation of the Secretary. THE VACANT the arrears of work in the office, and the many SECRETARY-neglected problems of reconstruction before the Society. From what transpired at the last Council-meeting, it appears that Mr. Woolcock's resignation was mooted in February, as at the last meeting a Sub-Committee reported to the General Purposes Committee in regard to the steps to be taken to fill the vacant Secretaryship and Registrarship. The decision, it is stated, was postponed to the April meeting, which is to be held on the Wednesday after Easter. 'It surprises some of our correspondents that so far no advertisement has appeared inviting applications for the position. The following is the sort of announcement that had been expected, but which we can state with confidence will not be issued:

The Council of the Pharmaceutical Society invite applications from qualified chemists for the combined position of Registrar under the Pharmacy Acts and Secretary of the Society. Applicants must be prepared to devote their full time and abilities to the duties of the office and be capable organisers. Legal qualification will be an advantage, but will not be made a condition of engagement. The reconstruction period before the Society and the forward policy which it is intended to adopt demand that candidates must possess unlimited energy and good health. Applications are not confined to chemists over military age, as arrangements could be made to keep the position open for one at present with the Forces who possesses the necessary qualifications. A concise statement of the applicant's qualifications should be submitted, and all likely candidates will be required to interview the Council. A liberal salary will be paid to the man who fulfils the conditions laid down.

In the case of the four Secretaries who have held the position since the foundation of the Society the selection was made without advertising for candidates, and from this precedent the Council is not likely to depart. The chief reason is that the decision has already been made



by the Sub-Committee, although so far the selection has not met with the approval of the Council; in fact, we gather from the wording of the official report that unexpected opposition arose which made it necessary to refer back the report. Efforts are now being made to find a way out of the *impasse*, and it is hoped to do this before the April Council-meeting.

March 13 is the last day for nominations to the Council for the election which takes place in May. Any member of the Society whose subscription is paid can nominate any other who is in the same happy position. It is the duty of the office to find out whether the nominated person would serve on the Council if elected, and to report the result of these inquiries at the next Council-meeting. There is no reason why candidates representing all schools of thought should not be nominated. It is particularly desired that persons of progressive ideas should come forward. There should be no reservation of opinion either from old or new candidates. So far as we can gather, all the seven councillors who are retiring will seek re-election, although in one or two cases there is naturally some hesitation as to whether a graceful retirement is not preferable to the rougher treatment at the hands of the electorate which may await figureheads whose only claim to re-election is that they have already served various periods as councillors. Already several names are mentioned of new candidates, among them being some who have not hitherto submitted themselves to selection by the members. One of these candidates is a lady. We hope that chemists in unrepresented districts will nominate the best local men and show an earnestness in their desire to take a more direct interest in the affairs of the Society.

So far no opposition has developed in regard to the proposed new by-laws, which will make it possible to impose a compulsory curriculum on candidates for the Qualifying examination. The reason for the lack of interest is due, we believe, to the fact that the opportunity for pushing through the by-laws has been carefully chosen when the undergraduates, whom it concerns most closely, are busy serving the country in the war. Whether it is quite fair to take advantage of this circumstance is a matter we leave to the conscience of the Council, but we suggest that election candidates should have their attention drawn to this unchivalrous move. The proposed by-laws were first rushed forward so that the President could flatter himself that he had "done something" during his term of office, but as he is now apparently to be re-elected in June this excuse for haste no longer exists.

### Pharmaceutical Cinchona-bark.

In a long paper published in "De Indische Mercuur" recently, Heer van der Wielen critically reviews some recent work on the proposal that *Cinchona robusta* bark should be substituted for *Cinchona succirubra* bark in making galenical preparations. The essential difference between them is that *succirubra* contains very little quinine, but is rich in cinchonine and amorphous alkaloids, whilst *robusta* contains more quinine and is especially rich in cinchonidine. Attention was directed to *robusta* bark in Java some years ago, owing to a demand from America for cinchonidine, which was believed to be used in compounding a "one-day cold-cure tablet." The tablet, if it ever existed, seems not to have been a success, as the demand for cinchonidine has fallen off. There are people, however, who believe that *robusta* bark has a future as a pharmaceutical bark, and it was fully discussed from this point of view by L. van Itallie and H. J. Lenkes at the Dutch Pharmaceutical Conference at Arnhem last year. In selecting a bark for pharmaceutical use the amount of total alkaloids must be taken into account, and the author points out that cinchona-wine made with a bark containing 6 per cent. of alkaloids is a pleasantly bitter preparation, whilst wine made with a richer bark is not. He thinks, however, that some attempt should be made to indicate the nature of the alkaloids present, and from

this point of view prefers the requirements of the Third Dutch Pharmacopœia, which prescribed the tartrate test, to those of the Fourth, which merely requires the presence of 6 per cent. of alkaloids. The reason for the omission of the tartrate test, he suggests, is that under cultivation in Java, *succirubra* bark has changed and would no longer meet the Third Dutch Pharmacopœia requirements. After a discussion of the various methods of estimation proposed, some of which attempt to take into account, not only the alkaloids present, but also the characteristic acids of the barks, the author concludes that the data available are still insufficient to enable a decision to be arrived at between the two barks. He suggests, that the whole subject should be thoroughly investigated in the East Indies, and that the *succirubra* bark used should be obtained from British India, as it is less likely to have altered through cultivation than the Java product. He also points out that recent work in British India has shown that the total alkaloids of the *succirubra* bark grown there (the material long ago prepared under the name "quinetum") have a specially valuable anti-malarial activity. The author further suggests that it is not only desirable that *robusta* and *succirubra* barks should be carefully compared from the point of view of their relative therapeutical value, but that the best method of making effective pharmaceutical preparations from them should be studied.

### Imports from the United States.

It was intimated in our issue of February 23 (p. 44) that all exports to and all imports from the United States were to be subject to official control, and the result of this announcement is now beginning to be felt acutely in many directions. In regard to this matter both the U.S. and British Governments appear to be working in unison, and intimation has now been received that the United States Government has decided that no export licences will be granted for any goods to be exported to the Allies, whether purchased by Governments or by private traders, unless sanction for the purchase and export has been obtained from the American Purchasing Commission. Such sanction, we understand, will not be given in respect of any consignments which are not recommended by the competent Authority of the Allied Government concerned, but it should not be assumed that the sanction will follow the recommendation as a matter of course. Sanction to purchase will not, however, be required for goods (a) which are in stock in the United States already manufactured, and (b) of which the manufacture in accordance with British specifications has already begun. The competent Authority respecting all goods to be purchased by private traders in the United States is the Department of Import Restrictions, Board of Trade, 22 Carlisle Place, London, S.W. It is therefore notified to all importers from the United States that prior to the placing of any order for goods in that country permission to do so must be sought from the Department of Import Restrictions, who will examine the request, and if they are of opinion that, having regard to all the circumstances of the situation existing at the time, the import of the goods can properly be sanctioned, will hand the applicant a numbered permit. The number must be communicated by the importer to the exporter in the United States, and the exporter will approach his authorities for their sanction. The above drastic step applies to all classes of goods, whether on the Prohibited Import List or not, and we learn that it practically means the cutting-off of many raw materials which are vital to the chemical, drug, and essential-oil industries of this country. Already many requests to import such materials have been refused, and personal application is useless. Inquisitorial questions are put to the would-be importer as to why he wants to import the goods, to what use they are to be applied, his stocks, and so on. If the importer should prove to be a speculator or dealer wishing to make a profit, he is likely to receive short shrift. We may therefore continue to look for a growing scarcity in many articles, so that the rationing of drugs, as well as of food, is becoming more likely.



### Fats for Human Food.

PROFESSOR HENRY E. ARMSTRONG, in a letter to the "Times," calls attention to the fact that, excepting for a little linseed, there is no crop grown in this country which produces fat. Hence we are dependent upon animals for our fats and upon vegetable fats grown outside the Kingdom. We notice from the "Deutsche Landwirtschaftliche Presse" that the Germans have been driven by the pressing need for fats to make investigations as to the best oleaginous plants to grow. It is stated that in Pomerania these are *Camelina sativa* (gold-of-pleasure, which yields German sesame oil), white mustard, flax, poppies (on a small scale), sunflower, and rape. A War Research Laboratory has also been established in Germany for scientific research regarding fats and oils. One section of the laboratory deals with the sources of oils and fats, and claims to have been successful in obtaining good supplies of oil from fruit-stones, nuts, maize and corn germs, and sunflower-seeds. No oil could be extracted from lime-seeds, nor was it found possible to gain fat from caterpillars. Another section deals with the possibility of converting non-edible fats and oils, until now only used for technical purposes, into fats and oils suitable for human consumption. The third department examines margarine and other fats sold to the public, to ascertain that no undue proportion of water is present, and that the products are not otherwise adulterated. The English Board of Agriculture and the Irish Department of Agriculture, in conjunction with the Ministry of Food, may find it necessary to study this problem, which has not, however, become urgent so far because of the large supplies of imported fats which this country has up till now been able to command.

### Java Citronella Oil.

THE DUTCH PLANTER in Java is nothing if not scientific. There the sugar-cane produces more sugar than anywhere else in the world, and every grain of it is extracted under stringent chemical control. In the same happy island cinchona-planting has long been something like an exact science, and it is almost possible to grow bark to a definite specification of alkaloidal content. It is little wonder, therefore, that the Java Dutch are beginning to be unhappy about their citronella-cultivation, and that discussions on the subject are taking place. A correspondent of the "Soerabaija Handelsblad" points out that the grass is largely produced by native growers on a system of advances made by the factory-owners. When harvest-time comes there is a tug-of-war between the two, the grower trying to sell his grass wet, damaged, and, if possible, encrusted with extraneous material, whilst the distiller tries to buy it dry, clean, and in good condition. Owing to the absence of any system of control, it is not possible to say what the average yield of oil is. In one factory the yield calculated on the grass as delivered was 0.6 per cent., whilst when calculated on a portion of the grass cleaned and properly dried it was 0.9 per cent. In another factory the yield in one season varied from 0.72 to 1.49 per cent. The correspondent suggests that the industry should be seriously taken in hand, and outlines a scheme for the cultivation of the grass in patches of four hectares each, the produce of each patch to be distilled by itself in a central factory.

### Inland Revenue Report.

THE sixtieth Report of the Commissioners of Inland Revenue, covering the year ended March 31, 1917, which has just been issued, deals with the receipts of Inland Revenue and of other duties collected by the Department, which together amounted to the gross total of 412,742,740*l.* The Report, in the interests of economy, has been cut down to the narrowest limits, much of the usual statistical material being omitted, while there is nothing in the Report of direct interest to the drug-trade. In the matter of estate-duty the Budget estimate was thirty millions sterling, whereas the amount paid into the Exchequer was 31,232,000*l.* As to the value of the 84,993 estates, 18,552 of them came within the class exceeding 1,000*l.* to 5,000*l.*; those exceeding

500*l.*, but not exceeding 1,000*l.*, being 13,720. Eight estates were over a million sterling, three of these being over two millions. The stamp-duties yielded 7,878,000*l.*, against a Budget estimate of 7,000,000*l.*; and in regard to inhabited-house duty it appears that in Great Britain during 1915-16 the total annual value of houses assessed was 94,717,885*l.*, the net yield being 1,940,000*l.*, or 50,000*l.* under the amount budgeted for. The figures for income-tax are interesting, particularly those in Schedule D, which includes profits from businesses, concerns, professions, and employments (except those of a public nature, which are included in Schedule E): Of the number of assessments in the United Kingdom (833,708) 767,027 were of employes and firms, 53,850 were public companies, and 12,831 local authorities. - The gross amount of income was 732,348,140*l.*, and the yield paid into the Exchequer was 185,930,000*l.*, this amount exceeding the Budget estimate by 7,930,000*l.* The super-tax yielded 20,675,000*l.*, and was paid by 27,628 persons, eighty-two of them having incomes exceeding 100,000*l.* The total duty payable under excess profits was approximately 155,000,000*l.*, whereas the Budget estimate was 86,000,000*l.* Only, the number of assessments made being 60,000. The receipts appear to have been swollen by the fact that many traders deposit or pay duty in advance and get a discount.

## Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

**Bleaching-powder Solution.**—At a meeting of the Manchester Literary and Philosophical Society ("Nature," December 20, p. 320), Mr. R. L. Taylor read a paper on the effect of light on solutions of bleaching-powder. Experiments were described in which solutions of bleaching-powder, differing in concentration and prepared in different ways, were exposed to diffused daylight and to intermittent bright sunlight, while other similar solutions were kept in the dark. Some of the experiments extended over fifteen months. It was found that solutions exposed to sunlight decomposed quite rapidly, those exposed to diffused daylight much more slowly, while dilute solution (1 per cent.) kept in the dark remained quite unaltered for the whole period of fifteen months. A solution five times the strength of the latter, however, did undergo some decomposition, losing about 20 per cent. of its available chlorine, even when kept in the dark.

**New Remedies.**—*Septovine* is a new iodine-containing antiseptic, which is, chemically, trichloroacetyl-diiodo-diphenol. It is recommended as a specific in cases of rheumatism, ague, and similar complaints.—*Rhodoforn* is the thiocyanate of methyl-hexamine. It is a brown, odourless powder, melting at 143°, and having a strong antiseptic value.—Under the name *Sauro* there has been placed on the market the oily distillate of the bituminous rocks found in the neighbourhood of Lako Lugano. It resembles ichthylol in characters and properties. It contains 6 to 7 per cent. of sulphur. Good results have been obtained with sauro in the treatment of eczema and similar diseases.—*Chlorazene* is an American remedy, analogous in its action to the metallic hypochlorites, but distinctly less irritating. It is the sodium salt of *para*-toluene-sulphochloramine. It forms a colourless crystalline powder melting at 101°-102°.—*Eucupine* is isoamyl-cupreine, and is proposed as a local anæsthetic.

**Ipecacuanha Alkaloids.**—At the meeting of the Chemical Society on March 7, Dr. F. L. Pyman, director of the Wellcome Chemical Research Laboratories, read a paper on the alkaloids of ipecacuanha (Part III.). *iso*Emetine, the stereoisomeride of emetine produced together with emetine by the reduction of methylpsychotrine, had previously been isolated only in the form of the benzoyl derivative. The base and several salts have now been crystallised. *iso*Emetine is also formed by the methylation of *iso*cephæline; it yields methylpsychotrine and rubremetine on oxidation. Attempts to isomerise it to emetine were unsuccessful. On complete methylation and degradation by Hofmann's method it yields a methine which is isomeric with methyl-emetinemethine. Dr. H. H. Dale, F.R.S., has found that *iso*emetine has about half the toxicity of emetine when given to rabbits intravenously, while it is practically not emetic for cats. Dr. G. C. Low has found that it is well tolerated by man, but that it does not appear to have any curative action in amoebic dysentery.



## Associations' Winter Session.

**Blackpool.**—The monthly meeting of the Blackpool and Fylde Pharmacists' Association was held at the Palatine Hotel on March 1, under the presidency of Mr. J. F. Blackhurst. A discussion took place on the hours of opening at Easter, but no action was taken in the absence of any Government announcement. A letter was read from the proprietors of Glickon's salve stating that the preparation is free from lead. No reply has been received to the inquiry sent to the makers of Bates's salve, and the Secretary was instructed to write again to the firm. It was resolved to supply a copy of "War Emergency Notes" to every member who has not yet received the publication. An animated discussion followed on proprietary articles and the P.A.T.A.

**Edinburgh.**—The fifth meeting of the fortieth session of the Edinburgh Chemists', Assistants', and Apprentices' Association was held in the Pharmaceutical Society's House, 36 York Place, on March 6, Mr. James Adamson (President) in the chair. Mr. J. Lothian, Ph.C., gave an address on *The Scientific Pharmacist*, remarking at the outset that the scientific pharmacist had been held up to much ridicule as a man in a doddering stage of senility or as a mad enthusiast. Hence the notion had arisen that he was a dreamer and idealist, living in a world of his own and destined to be worsted in the battle of life, his material prospects being, as it were, in inverse ratio to his talents. To controvert these notions was the purpose of the speaker's remarks. To evolve the complete pharmacist, a gradual rather than an intensive training was required concurrent with apprenticeship and in direct continuity with school studies. Mr. Lothian advocated a system of self-instruction. The languages and mathematical studies of the first examination must be continued until fluency in one or two modern languages was acquired and the foundations of the higher mathematics laid, without which it was difficult to get in touch or keep in touch with modern chemistry and physics. It was essential that study should not be compressed, but extended over the maximum period; there was no need either for tears or midnight oil. Messrs. D. Kerr and A. Mackintosh submitted a paper on *The Advantages of a Wholesale Training*. Beginning with the wet-room, there was acquired the advantage of a steady hand and a general knowledge of specific gravities; in the dry-room acquaintance was made with drugs as they occur in the market. Materia medica could be well studied at this point. In the office a valuable knowledge of bookkeeping and prices was acquired. Much knowledge was also gained by the reading of chemists' orders and by the deciphering of difficult prescriptions sent in by chemist-customers. In the laboratory much practical knowledge of making galenicals was obtained which, owing to retailers making few galenicals, could not be learned in a retail experience. The work of a beginner in the laboratory was hard, dirty, and disagreeable, but by sticking to it one gradually rose to something better, and the experience was useful. The authors recommended a wholesale experience to follow on a retail experience as a means of fitting a pharmacist for success in conducting a retail business. Mr. J. Rutherford Hill, Ph.C., contributed a further series of *Back-shop Experiments*, illustrating a chemical trick called "changing water into wine," water boiling below 100° C. under reduced pressure, liquids lifted to higher levels by atmospheric pressure, and cloud-formation in air saturated with aqueous vapour when atmospheric pressure is reduced. On the motion of the Chairman, a cordial vote of thanks was awarded Messrs. Lothian, Kerr, Mackintosh, and Hill.

**Great Yarmouth.**—The monthly meeting of the Great Yarmouth Pharmaceutical Association was held at 156 King Street on March 7, Mr. T. B. Male (President) in the chair, when correspondence was read from the Dublin Association advocating face-values for proprietary articles, and it was agreed to support the movement.

**Ipswich.**—A meeting of the Ipswich and District Chemists' Association was held on March 5, Mr. G. N. Edwards (President) in the chair, when Mr. Douthwaite (Felixstowe) was elected a member. Messrs. Symonds and Wignin, the delegates to the recent meeting of the East Anglia Federation at Norwich, reported upon the proceedings there. The Secretary stated that "War Emergency Notes" had been distributed to members of the Association. Correspondence relative to the inadequate profits upon many proprietary articles was read, and it was decided to communicate with certain proprietors on this subject. It was announced that Mr. F. G. Hines, member of the Pharmaceutical Council, would address the members at their meeting on April 3.

**Liverpool.**—The Liverpool Chemists' Association met at the Royal Institution on March 13, the President (Mr. William P. Evans) in the chair. Mr. W. H. Saunders (Ayrton, Saunders & Co., Ltd.) opened a discussion on *Face-values*, premising that in so doing he was preaching to the converted, and felt like a curate addressing a congregation of bishops. He urged pharmacists to co-operate with the Proprietary Articles Trade Association, and expressed the view that the competition of the future would be a competition in quality, not in prices. Multiple shops and co-operative stores no longer competed, he said, in prices, and manufacturers were supporting retailers. He advised pharmacists to strengthen the Face-values Committee in securing face-values first, leaving the question of percentage profits to right itself. He concluded by moving a resolution accordingly. Mr. W. H. Clubb, in seconding, invited Mr. Saunders to address the Lancashire Federation on April 17. The discussion was continued by Dr. Symes and Messrs. Wallbridge, Moreton Parry, Prebble, and McCaig. In reply to a vote of thanks, Mr. Saunders said that the retail trade was never more united. A discussion then ensued on a proposal to bring the Liverpool Chemists' Price-list up to date. After a temporary list had been suggested, it was resolved, by a majority, to adopt the "British and Colonial Pharmacist" price-list for the duration of the war. Messrs. A. E. Bickerton and T. R. Huddart were elected members.

**Progressive Pharmacy Club.**—The whist-party held at the Club on March 7 was a great success, and the club-room presented a most animated appearance during the evening. There was an attendance of nearly sixty persons, and play was continued, with an interval for refreshments, until 11 p.m. The prizes for ladies were won by Miss Fordyce, Mrs. Toeher, and Mrs. Jenkin; those for gentlemen by Mr. Keith, Mr. N. Humphrey, and Mrs. Shanahan. A vote of thanks to Mr. Amos Jones for organising the evening's entertainment brought a most agreeable function to a close.

**Ucal.**—A meeting of pharmacists interested in the Ucal movement was held at 70 Lower Mount Street, Dublin, on March 6, when a collection of cartons was exhibited, and Mr. J. A. Deakin explained the objects of the company and its working methods as illustrated at the Cheltenham conference last summer. Mr. Hanna read the managing director's replies to several questions which had been put to him, and it was unanimously decided to form a Ucal Club for Dublin and the district. The following officers were elected for the ensuing year: *President*, Mr. J. A. Deakin; *Vice-President*, Mr. D. C. Glenn; *Treasurer*, Mr. R. B. Brown; *Hon. Secretary*, Mr. G. A. McLean Lee, 69 Upper Sackville Street, Dublin.

**Wolverhampton.**—The annual meeting of the Wolverhampton and District Chemists' Association was held on February 27, when the following officers were elected: *President*, Mr. E. H. Bowdler; *Vice-President*, Mr. C. M. Warner; *Treasurer*, Mr. S. Phillips; *Hon. Secretary*, Mr. J. H. Coleman; *Committee*, Messrs. Dunn, Gibson, Marlow, M. R. Warner, and Willcock. The Pricing Committee comprises the President, the Vice-President, and Messrs. Trotter (Martyns, Ltd.) and Scholefield (Boots, Ltd.). The officers were thanked for their work during the past year, and the sum of three guineas was voted to the Benevolent Fund. Two new members were elected.

## Business Changes.

FREEMANS' VETERINARY CHEMISTS, LTD., have removed their registered office to 18 Icknield Street, Birmingham, following a change of directorate.

MR. J. T. APPLETON, chemist and druggist, has removed from 298 South Road, Sheffield, to commodious double-fronted premises in Industry Street.

THE BUSINESS of the late Mr. H. S. Pearmund, Ph.C., High Street, Tunbridge Wells, has been acquired by the Lion Drug Stores, Ltd., Brighton.

MR. R. E. BICKERTON, chemist and druggist, branch manager for Mr. E. Prebble, chemist and druggist, at 206 Boaler Street, Liverpool, has taken over the business at that address.

THE PARTNERSHIP between Mr. Robert Baird Scott, chemist and druggist, and Mr. James Proe Worthington, chemist and druggist, carrying on business as chemists under the style of Scott & Worthington, Market Street, Wigan, has been dissolved by mutual consent. Mr. Scott is retiring for reasons of health, and Mr. Worthington is carrying on the business.



## Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

### Reports from Local Centres.

#### ENGLAND.

**Blackburn.**—The prescriptions dispensed during 1917 numbered 142,133 for 52,000 persons on the panel. The ingredient-prices aggregated 1,838*l.* 12*s.* 1*d.* and the dispensing-fees 1,726*l.* 16*s.* 2*d.*; average ingredient-price, 3.19*d.*; average dispensing-fee, 2.91*d.* The average total cost per insured person was 16.69*d.* and the frequency per insured person 2.73. The Pharmaceutical Committee estimates its administrative expenses for 1918 at 76*l.* 10*s.*, which amount has been approved. The Panel Committee has decided to continue the use of the Blackburn Pharmacopœia, and has agreed to the reassessment of the drug-prices and the ratio of new Tariff prices to those of Article V. being made quarterly. The Insurance Committee has accepted the Pharmaceutical Committee's revision of the dispensing-hours for Thursday afternoons and Sundays provided notices are displayed in the pharmacies. The Clerk (Mr. H. Whittaker) has secured the extension of the chemists' and dispensers' exemption from military service till June 30.

**London.**—A meeting of the Pharmaceutical Committee was held at Bank Chambers, High Holborn, W.C., on March 12, Mr. G. W. Hatfield in the chair. A discussion arose concerning the Early Closing Order and the dispensing service, and it was decided to call a special meeting of the Committee to discuss the matter. The report of the Central Checking Bureau for November showed that the margin of error was 0.16 per cent. A special Sub-Committee was appointed to consider the question of the representation of pharmaceutical interests on the London Insurance Committee. The Secretary's report stated that the value of the early accounts for December 1917 was 7,711*l.* 8*s.*, and the number of prescriptions dispensed 297,286, the average cost being 6.23*d.* per prescription. A letter of thanks had been received from the Pharmaceutical Society for samples submitted by the Committee of liniments made with mineral oil instead of olive oil. The Committee then considered a letter from the Insurance Committee stating that considerable delay existed in the submission of accounts by chemists on the panel, pointing out that it was impossible to keep to the Insurance Commissioners' time-table with regard to the payment of advances—also the settlements month by month—unless chemists themselves conform to the time-table by submitting their accounts not later than the 4th of each month. It was decided to write to the chemists concerned urging them to submit their accounts regularly and promptly.

**Salford.**—At the meeting of the Insurance Committee on February 28, reference was made to the proceedings taken under the Sale of Food and Drugs Acts against a firm of Salford chemists in connection with the dispensing of a prescription for medicine issued under the direction of the medical officer of health (see *C. & D.*, February 9, p. 47). Mr. Gill, on behalf of the Salford chemists, stated that this case should not be taken as indicating the standard of the whole of the dispensing service in the Committee's area. He understood a number of samples of medicines had been taken from various chemists, but so far as he was aware the case referred to was the only one in which proceedings had been taken.

**Sheffield.**—At the meeting of the Pharmaceutical Committee on March 11, Mr. A. H. Culverhouse presiding, it was decided to advise the use of a 3-yard bandage when 1-in. width is required, in place of the 4 yards as agreed upon in larger widths. The homœopathic chemists are willing to accept the Pharmaceutical Society's proposed scale of payments for homœopathic dispensing, at the same time pointing out that the prices are below those already allowed in some districts. The September and October checking reports were presented, and still showed too large a percentage of articles omitted to be priced. The Secretary was instructed to draw attention to the matter. Authority was given for the payment of the amount due under the new terms for checking, and that the terms of 1 per cent. for a complete check when necessary be accepted. The Panel Committee are to be asked to define what are required when aq. colorata and chlorodyne are ordered in prescriptions, so that uniformity may be arrived at. The Secretary reported on the improved methods adopted by the Pricing Bureau, with a view of assuring greater accuracy in pricing. It was decided to offer the best thanks of the Committee to the Local Associations Executive for their efforts to secure adequate remuneration for Insurance dispensing.

#### SCOTLAND.

**Drug Accounts Committee.**—We have received from Mr. A. B. Gilmour, superintendent of the Central Checking Bureau, Glasgow, a plotted chart and a comparative statement showing for the years 1915, 1916, and 1917 (a) number of forms allowed, (b) total value of forms, (c) average price per form. The following is the statement referred to:

	No. of Forms Allowed	Total Value of Forms	Average Price per Form
1915	2,220,215	£90,182 10 <i>s.</i> 3 <i>d.</i>	9.74 <i>d.</i>
1916	1,938,523	£80,451 11 <i>s.</i> 4½ <i>d.</i>	9.96 <i>d.</i>
1917	1,805,603	£72,753 5 <i>s.</i> 1 <i>d.</i>	9.67 <i>d.</i>

**Stirling.**—The Burgh Insurance Committee have appointed Mr. John Clink Clerk and Treasurer, in place of the late Mr. Brown, at a salary of 180*l.*

## Personalities.

MISS ELSIE MAY READE, pharmacist, Crediton, has been appointed head pharmacist to a military hospital in France.

MR. ERNEST A. PROCTOR, chemist and druggist, Downham Market, has been elected a member of the local Food Control Committee.

MR. BARTON KENT (G. B. Kent & Sons, Ltd.) lectured at the Mansion House, London, E.C., on March 8, to a number of business men upon the need of Esperanto as an international commercial language.

BRO. FRANK WHITELOCK PYBUS, chemist and druggist, Richmond, Yorks, has been installed Worshipful Master of the Lennox Lodge, No. 123, for the ensuing year. Mr. Pybus has been a member of this Lodge for the past twelve years.

MR. PERCY J. ASHFIELD, chemist and druggist, Rhyl, has recently organised two highly successful entertainments at the Rhyl Pavilion in aid of Red Cross hospitals and the local Advertising Fund. Mr. Ashfield also appeared in a scene from "The Bells" at both performances.

MR. RHYS JONES, chemist and druggist, manager for Boots, Ltd., at 25 Above Bar, Southampton, has, on leaving to take up another post, been presented by personal friends with a bureau, a fountain-pen, and an album containing the autographs of a hundred and eight subscribers.

THE FEBRUARY ISSUE of the "American Journal of Pharmacy" is a Remington Memorial Number. It contains appreciations of the late Professor Joseph P. Remington by Mr. Chas. H. LaWall and Professor John Uri Lloyd, with an account of the funeral and memorial meeting held at Philadelphia College of Pharmacy.

IN THE REPORT of the annual meeting of the East Anglia Federation of Pharmaceutical Associations (*C. & D.*, March 2, p. 46) the name of the Secretary, Mr. C. Hamson, Peterborough, was wrongly given. Mr. Cornelius Bayley, Uppingham, who points this out, writes that it is to Mr. Hamson that much of the success of the Federation is due.

MR. W. H. SAUNDERS, referring to the report of the London meeting of the Face-values Committee (*C. & D.*, March 9, p. 33), informs us that point 4 should read as follows:

"The greatest difficulty will be an attempt to draw a red herring across the path of face-value to divert from it the attention of the whole of the craft by attempting to arrive at a definite percentage of profit, whereas if the principle of face-value is once adopted, the question of profit will necessarily follow, but any attempt to fix definitely the exact profit before face-value has been secured will jeopardise the entire scheme."

A BILL has been lodged in the French Chamber to divert alcohol from human consumption to industrial uses. It provides for the suppression of alcohol in patent and proprietary medicines.

**FRAUD CHARGE.**—Mr. D. L. Milic, general manager to Madero Brothers, drug exporters, New York, has been arrested on a charge of attempting to defraud the United States Navy by filling false manifests covering a shipment of salicylic acid, labelled quinine, to an Italian military hospital. Thirty-two packages were found thus labelled. Mr. Milic is an Austrian, and in filling an order for 2,000 lb. of quinine he is alleged to have supplied salicylic acid. As he was unable to find bail in \$15,000, Milic is in prison. The business of Madero Brothers had been managed by Milic since its foundation soon after the outbreak of the European war. The business is now in the hands of receivers.



## Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

### EASTER RECESS.

According to present arrangements the House of Commons will adjourn on March 21 for the Easter recess, and re-assemble on April 9.

### THE EDUCATION BILL.

The second reading of the Education Bill took place in the House of Commons on March 13.

### THE BUDGET

is to be introduced so soon as possible after Easter, which this year falls on March 31, the last day of the financial year.

### DISPENSERS IN MILITARY HOSPITALS.

Mr. Macpherson stated in the House of Commons on March 11 that revised rates of war-bonus payments have been fixed from January 1, and that the necessary instructions were issued on March 8.

### MINISTRY OF HEALTH.

Mr. Bonar Law announced on March 13 that consultations were still proceeding on the question of the establishment of a Ministry of Health, and he was sanguine enough to hope that an agreement would be arrived at.

### OVERSEAS TRADE DEPARTMENT.

A Bill to make provision for the joint appointment by the Board of Trade and the Secretary of State for Foreign Affairs of a Secretary of the Overseas Trade Department was introduced into the House of Commons on March 12.

### SUGAR FOR INVALIDS.

Mr. Clynes, the Parliamentary Secretary to the Ministry of Food, stated in the House of Commons on March 11 that he has been advised that an increased ration of sugar is only necessary and should only be granted in cases where invalids are unable to swallow, or have to be fed by tube with concentrated nourishment. In other cases, substitutes for sugar can be used.

### PAPER CONTROLLER.

Sir A. Stanley stated in the House of Commons on March 11 that Mr. Henry A. Vernet has been appointed Paper Controller, and takes the place of the Royal Commission on Paper. The Minister added that he was not aware that Mr. Vernet had had any previous experience of paper. The members of the Commission are to serve as an Advisory Committee to the Paper Controller.

### IMPORTS AND EXPORTS (TEMPORARY CONTROL) BILL.

The second reading of this Bill, writes our Parliamentary correspondent, will not be taken in the House of Commons until after the forthcoming Easter recess, when a general discussion will arise on the Paris economic resolutions. There is reason to believe that when the Bill comes before Parliament the Government will express its willingness to reduce the period of control after the war from three years, as originally proposed, to one year.

### EGG-PRESERVING.

Mr. R. Gwynne on March 7 asked the Parliamentary Secretary to the Ministry of Food whether, in view of his statement that if eggs are acquired for preserving in water-glass the quantity preserved must be limited to the ordinary and proper requirements of the preserver's household, he will state the approximate number per head for each household that would be permitted; and whether, in view of the fact that eggs have to be preserved in this way in quantities, and that a considerable outlay is necessary, he would consider two per head per week a reasonable amount, or, say, 100 per head of household for twelve months in advance?

Mr. Clynes, in reply, said the number of eggs which may properly be bought and preserved in each particular case is a question for the Courts to determine, and as at present advised, he was not prepared to express any opinion on the matter.

MR. JAMES M. MUNYON, proprietor of Munyon's remedies, died this week at Palm Beach.

THE INTERNATIONAL INSTITUTE OF AGRICULTURE in Rome has published an interesting review dealing with the international trade in fertilisers and chemical products employed in agriculture. It comprises nearly sixty pages, with a great number of data, either official or from trustworthy authorities. Separate headings are devoted to each of the principal fertilisers (phosphatic, potassic, and nitrogenous).

## British Industries Fair.

THE fourth British Industries Fair organised by the Board of Trade since the outbreak of war was opened without ceremony on March 11, in the Pennington Street premises of the Port of London Authority, and will remain open daily from 10 to 6 until March 22. The Fair is ten minutes' walk from the Mark Lane station of the Underground Railway, and a service of motor-buses plies between the station and the Fair. The location of the Fair as regards accommodation is a distinct improvement on its predecessors, the whole of the exhibits being on one extensive floor, while the space allotted is very much larger than in the case of any of the previous Fairs. At the time of our visit there was an air of bustle and optimism suggestive of even better business than last year. As in previous years, the right to exhibit has been limited to manufacturers only, and some 425 firms are exhibiting. It has, however, not been possible to accommodate a number of firms who omitted to apply in good time. The Fair has again been confined to pottery, glass, stationery, paper, printing, fancy goods, and toys. Medical and laboratory glassware and apparatus again take a prominent part, the individual firms of the BRITISH CHEMICAL WARE MANUFACTURERS' ASSOCIATION, LTD., being well represented. These include WORCESTER ROYAL PORCELAIN CO., LTD., of Worcester, whose laboratory ware of all descriptions has now acquired for itself a reputation for quality quite equal to that of the German-made article. It is common knowledge that this is an entirely new industry since the war, and great strides have been made in its progress, particularly in regard to evaporating dishes and basins, crucibles and covers, filter-plates, combustion tubes and boats, of which an extensive display is made. DURUGLASS, LTD., are showing boiling-flasks in which the difficulties of annealing have been completely overcome, resulting in a product fully equal to the once famous Jena ware. Laboratory glass of the highest quality is also shown by JOHN MONCRIEFF, LTD., and WOOD BROTHERS GLASS CO., LTD., and there is a display of ampoule syringes, hypodermic syringes, etc., by HYPOSON, LTD. A. & J. DAVIES, LTD., show chemical and table glassware. Glass wool, free from lead and borax, is the chief attraction at the stand of THE BRITISH GLASS WOOL CO., LTD. Whatman filter-papers are the speciality of W. & R. BALSTON, LTD., who display them in a great many varieties, each designed to meet a special want in filtration. Mr. P. P. BAKER exhibits camel-hair pencils, liners, mops, dabbers, etc., for all purposes, throat-brushes being a speciality, and undertakes to quote for any brush of special pattern. A. S. CARTWRIGHT, LTD., have a neat exhibit chiefly devoted to seamless rubber nipples for babies' soothers, of which the company are actual makers, and can give prompt delivery. This line is quite a special feature of the company's productions, which also include bottle teats and valves, teething-rings, teats for fountain-pen fillers, umbrella-rings, etc. THE PEACE PILLOW CO. have a neat display of their peace pillow for insomnia, also the perfume "Esprit de Liège" and "L'Air de Vie," a lavender-basis perfume and toilet-water; "Linsasha" sachets, perfumed with lavender and packed in tinfoil envelopes. There is also a good display of the favourite octagon-shaped "Orlwara" nail-brushes, orders for which are executed strictly in rotation. WARD & GOLDSTONE show an extensive selection of electric pocket-lamps, hand-lamps, torches, and portable electric appliances. The firm have made considerable progress in the manufacture of medical coils since the last exhibition, and several improvements are in process of completion. They have numerous patterns to select from at prices ranging from 5s. 6d. complete up to 7l. 10s. Dry-battery refills are shown in endless variety, and our attention was directed to a representative range of cords and cables with various terminal ends, which are manufactured for all purposes for lighting, heating, power, telephone, telegraphic, and wireless work. A comprehensive exhibit of perfumery, scap, and toilet-preparations occupies the stand of CUSSENS, SONS & CO., LTD., who also make a feature of pomades, dentifrices, etc., in tins. The BERKEFELD FILTER (BRITISH) show the "Berkefeld" filters in all the different patterns previously made by the German company. JAMES PASCALL, LTD., exhibit their confectionery parlour shops, fancy boxes of chocolate, patriotic figures, and other novelties. THERMOS, LTD., in addition to their original Thermos flasks, show glass bottles, glass rod and tubes, laboratory glass, surgical glass, etc. THE EBCRITE PAPER CO., LTD., have an attractive and large show of corrugated paper, wax paper, crinkled paper, crêpe paper, shelf-paper, globular embossed paper, paper shavings, confetti, garlands, Dorothy sweet-bags, etc., of all which products they are actual makers.



## Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

### 42 Cannon Street, E.C. 4, March 14, 3 p.m.

As will be seen from the table below, a fair amount of price alterations have taken place, the bulk of which is on a higher plane. It is now extremely difficult to obtain permission to import certain products from the United States, and the new restrictions will be found on p. 43. Imports from Japan are also likely to fall off still further; these factors tend to appreciate values of all spot produce, and we have to report a further advance in menthol, Japanese oil of mint, farina, agar-agar, and camphor oil. Spices, such as peppers, cassia lignea, pimento, and ginger, have shown more activity and are dearer; seeds continue to arrive in fair quantity, coriander being rather lower on accumulated stocks; fenugreek-seed is firmer, however, and canary dearer. Among chemicals the scarcity of bromides is getting acute, and values are again dearer. Methyl salicylate, lithia carbonate, vanillin, cream of tartar are all higher than last week. Strychnine has advanced 1s. per oz., nux vomica being again scarce. Chloral hydrate, hydroquinone, and salol are all firm. Arsenic is rather lower. Salicylic acid is selling freely for forward delivery. Bismuth salts and shellac are the latest products to be taken under official control, Orders being summarised on p. 33.

Higher	Firmer	Easier	Lower
Agar-agar	Camphor oil	Dill-seed	Aloes (Cape)
Arrowroot	Cassia lignea	Ipecacuanha	Arsenic
Benzoin	Cream of tartar	Lime oil	Coriander-seed
(Sumatra and Siam)	Fenugreek-seed	(W.I. dist.) Phenacetin	Pennyroyal oil
Bromides	Lithia carb.		
Calumba	Tartaric acid		
Canary-seed	Vanillin		
Farina			
Ginger			
Gurjun oil			
Honey			
Kola			
Menthol			
Methyl salicylate			
Mint oil (Jap.)			
Myrrh			
Peppers			
Pimento			
Strychnine and salts			
Turmeric (Ch. finger)			

### Cablegram.

NEW YORK, March 14.—Business in drugs is fair. Pepper-mint oil in bulk is 10c. lower at \$3 per lb. Cascara sagrada is steady at 13½c. Buckthorn-bark has been reduced to 20c., and Cartagena ipecacuanha is firmer at \$3 per lb.

ACETANILIDE.—The spot scarcity still continues, and supplies at 5s. 6d. per lb. net are not abundant.

AGAR-AGAR is now very scarce on the spot, the value being about 4s. 2d. per lb. if obtainable. To arrive, the sales include January-March at 3s. 8d. to 3s. 9d., February-April and March-May shipments at 3s. 5d. to 3s. 9d., and April-June 3s. 5d. to 3s. 6d. c.i.f. for No. 1.

ALMOND OIL is very firm at from 3s. 3d. to 3s. 4d. per lb.

for expressed B.P. and 3s. 5d. for bleached. Essential bitter is 46s. and s.a.p. 50s. Apricot or peach-kernel oil is scarce and dearer at 2s. 2d. to 2s. 3d. net, and essential bitter (artificial) is 25s. net.

AMIDOPYRIN.—Consignments are now on the way from Switzerland, but the price on spot remains at 62s. 6d. per lb.

ANISE.—Russian is quoted 77s. 6d. per cwt., being steady.

ANISE OIL, STAR.—Further important arrivals have taken place, being held for investment. Spot price of "Red Ship" remains at 4s. 2d. In the drug-auction 41 cases, with a congealing point of 15.1 (Umney), sold without reserve at 4s. 2d. per lb.

ARROWROOT is dearer, with sales of fair to good manufacturing St. Vincent at from 10½d. to 11d. on the spot.

ARSENIC.—The easier tendency still exists, and it is possible that at the high level of values ruling, consumption has diminished. With an order in hand it is possible to buy Japanese at below 140s. per ton.

ASPIRIN presents no new feature at 12s. 6d. per lb. Makers are said to be substituting acetyl chloride for acetic anhydride in the manufacture of aspirin, and probably this enables them to make a profit on present prices. As regards imports from France, considerable congestion prevails on the railways, and little is looked for in this direction.

BALSAMS.—Supplies of *Copaiba* are becoming scarcer; Central American B.P. is offered at 5s. 6d., filtered Para in cases at 3s. 4d., unfiltered Maranh in casks at 5s. 3d., and filtered in cases at 5s. 8d. Canada in cases is 6s. 3d., and genuine Peru balsam in cases is 19s. net. A limited quantity of *Tolu* is offered at 6s. 6d.

BELLADONNA-ROOT of good test is offered at 5s. per lb. on the spot.

BISMUTH.—The Ministry of Munitions has issued an Order which is summarised on p. 33.

BISMUTH TRIBROMPHENOL (XEROFORM) is offered at 35s. per lb. net.

BROMIDES.—An active demand still continues for bromides on the spot, and the stocks are gradually approaching the point of exhaustion. Consignments of sodium are either on the point of being shipped from the U.S.A. or actually afloat, which may relieve the situation from the pharmaceutical trade point of view, but the photographic trades are badly in want of potash and ammon., and it is to be hoped that the strong representations lately made by consumers will induce the Government to ensure supplies coming forward quickly and in sufficient quantity to relieve the needs of what is an important industry. Meanwhile, prices of the small existing stocks continue to improve on the spot, and higher prices have been paid. Potash has been sold at from 9s. 3d. to 9s. 6d., and is fully worth these prices; ammon. is very scarce at 7s. 6d. to 8s.; and sodium is 4s. 9d. per lb.

CAMPHOR (REFINED) remains very firm, the value of Japanese slabs on the spot being 4s. 2d. and 4-oz. tablets 4s. 6d. To arrive, March shipment, slabs have been sold at 4s. 1d. c.i.f. In the drug-auction 20 cases of 320 pieces to the lb. were limited at 4s. 3d. net.

CAMPHOR OIL is dearer at from 115s. to 120s. per cwt. on the spot for Japanese white, as to seller.

CANARY-SEED is dearer and in good demand. Fair to good Morocco is quoted 187s. 6d. to 192s. 6d. per quarter.

CANTHARIDES.—Fair Russian flies offer at from 12s. 6d. to 13s. per lb. on the spot.

CARAWAY-SEED.—Small sales of Levant are reported at 220s. per cwt.

CASCARA SAGRADA.—Privately holders ask 145s. per cwt. on the spot. The London stock on February 28, 1918, was 66 tons, against 44 tons in 1917; the landings in London during February were 14 tons and the deliveries 10 tons.

CASEIN.—It is reported that French make is to be used for edible purposes only, so that qualities for industrial use will no longer be available.

CASSIA LIGNEA is firmer, with sales of whole on the spot at 85s. 6d. to 85s. per cwt.

CLOVES are steady, with spot sellers of fair Zanzibar at 2s. 3d., and buyers at 2s. 2d.

COCOA-BUTTER.—Sellers of prime English quote 2s. per lb., at which sales have been made.

COPPER SULPHATE.—Business is now almost entirely confined to home agricultural purposes, with a good run of orders for spring delivery at the fixed prices in force of from 50l. to 52l. per ton, according to position. American competition continues at very high prices for Continental ports, although the new Order issued by the American authorities will probably check if not altogether stop the exports of many commodities, especially to neutrals. The American exports during 1917 were fully 13,000 tons, compared with 8,624 tons in 1916, an increase of over 4,300 tons.

CORIANDER-SEED.—Morocco quality is lower at 72s. 6d. per cwt. In the drug-auction 130 bags of ordinary East



Indian sold at 54s. for sound and 53s. for slightly sea-damaged.

CREAM OF TARTAR.—Buyers would probably have to pay 410s. per cwt. for 98-per-cent. powder actually on the spot or near at hand.

CUMIN-SEED is unchanged at 65s. to 67s. 6d. per cwt. for good sifted Morocco.

DIGITALIS-LEAVES.—Spot supplies are plentiful at from 1s. to 1s. 4d. per lb., as to quality.

DILL-SEED is steady at 55s. to 57s. 6d. per cwt. for ordinary to good East Indian. In the drug-auction 65 bags of East Indian sold at the easier rate of 56s. 6d. per cwt.

FARINA is again dearer, the spot price of No. 1 Japanese having advanced to 92s., with sales up to that figure. The sales also include near at hand at 87s., January-March at 89s. 6d. to 91s., February-April at 88s. 6d., March-May at 86s. to 88s., April-June at 86s. to 86s. 6d.

FENNEL-SEED is quoted 57s. 6d. per cwt. for East Indian.

FENUGREEK-SEED is steady at 43s. 6d. per cwt. for Morocco.

GINGER has been in better demand at dealer rates. Washed rough Cochín is held at from 72s. 6d. to 75s. for fair to good, and at 70s. for rough Calicut. Sierra Leone has been sold at 70s.

GLUCOSE.—Neither liquid nor solid is obtainable on spot.

HYDRASTIS is firm on the spot at 33s. per lb. net.

LIME OIL.—Distilled West Indian is flat and in easier tendency at 7s. 6d. to 7s. 9d. per lb., and hand-pressed is 21s.

LITHIA SALTS.—Carbonate is firmer and still scarce; sales have been made at from 8s. to 8s. 6d., but to-day's value is 9s. to 9s. 6d. on the spot. Salicylate is worth about 17s., citrate 8s. 6d. to 9s., and benzoate 32s. per lb.

MENTHOL.—Legitimate covering of possible requirements by buyers has led to a decidedly improved tone, Kobayashi-Suzuki having been sold up to 14s. on the spot, at which there are buyers, and to arrive 13s. 6d. c.i.f. is quoted. In the drug-auction 10 cases Suzuki and 10 cases Kobayashi in prize sold at 13s. 9d. and 13s. 11d. per lb. respectively.

METHYL SALICYLATE.—Spot stocks have become much reduced, and values are still rising. Spot sales have been made during the week at from 5s. 3d. to 6s. 3d., and at the close 6s. 6d. is asked.

MINT OIL.—Japaneso dementholised has been in improved demand at higher rates, with sales of Kobayashi at from 3s. 9d. to 4s. on the spot. In the drug-auction nine cases of Kobayashi, in tins all more or less rusty, sold without reserve at from 3s. 2d. to 3s. 3d. per lb. A further 20 cases of Suzuki in prize offered, and a bid of 3s. 9d. was refused for part, 4s. being wanted.

OPUM is slow of sale, with Persian offering at 61s. per lb. for 10-per-cent. on the spot.

PENNYROYAL OIL is cheaper, foreign distilled offering at 7s. 9d. per lb. net.

PEPPER is dearer, with sales of fair black Singapore at from 1s. 3d. to 1s. 4d., Tellicherry at from 1s. 4d. to 1s. 4½d., and Aleppy at from 1s. 3½d. to 1s. 4½d. and buyers. White pepper is also dearer, the sales including Muntok at 2s. to 2s. 1d. on the spot, with buyers at 2s. 1½d., and a good business has been done to arrive at advanced rates.

PEPPERMINT OIL.—A few arrivals of American tin oil have taken place; spot holders ask 20s. to 21s. 6d. per lb. Sales to arrive have been made at 17s. 9d. net. A limited quantity of H.G.H. is offered at 28s. 6d. London terms, and English at 75s. net for 1916 crop.

PHENACETIN.—A certain amount of cutting in prices is taking place between American and Swiss makers, but this competition is not expected to last much longer, and a recovery to about 31s. to 32s. per lb., which in the present circumstances is a normal valuation for this product.

PHENAZONE.—Spot price varies somewhat at from 51s. 6d. up to 55s. per lb., according to seller. There are several consignments on the way which have been delayed by the congestion on the French railways, but there is now no reason why permits should be withheld.

PIMENTO is dearer, a fair business having been done at from 4½d. up to 5½d. per lb. The spot stocks continue large, being 39,849 bags, against 19,785 bags in 1917 and 7,804 bags in 1916.

QUININE.—We understand that offers will be forthcoming from the makers shortly, so that the present acute situation will be relieved to a great extent. It is common knowledge that the Government absorb large quantities of the imports, which has the effect of depriving supplies for the home trade. The latter, however, are fortunately comparatively small, and, as before intimated, recourse must be had to cinchonine and cinchonidine salts, stocks of which are large.

SACCHARIN.—There is still a great scarcity on the spot, and supplies of English make are eagerly awaited. Spot holders therefore find no difficulty in realising the high figures of from 350s. to 370s. for 550 pure, and even more. In spite of the reports as to Government intervention, forward buy-

ing is still taking place, but we understand one important American exporter is in difficulties. Some dealers are evidently courageous enough to stand the consequences of buying forward in the hope of making a profit before the Government intentions, whatever they are, become operative. Doubt is expressed as to whether the home manufacture can in any way suffice for trade requirements, and importation must be encouraged if the situation is to be relieved. The question of control of prices therefore is a difficult matter, and the attempt to fix one not sufficiently tempting will only lead to decreased imports and irritation. See correspondence on p. 51.

SALICYLATES.—Buyers will have already noted the correctness of last week's paragraph about *salicylic acid*, as a substantial business has again been done during the past week at about 5s. per lb. for English make for forward delivery. At this price there is little prospect of American competition. As to *sodium salicylate*, the market does not entirely depend on English production, which is comparatively small, so that American will continue to be imported to meet requirements; spot price is 7s. to 7s. 3d. per lb.

SASSAFRAS OIL.—American natural is offered at from 11s. to 12s. net, as to seller.

SENEGA is very scarce and practically unobtainable.

SHELLAC.—An Order issued by the Ministry of Munitions is summarised on p. 33, and the market in consequence is nominal.

STRYCHNINE.—On March 7 the makers advanced their prices by 1s. per oz., following on one of 9d. in February. Quotations (without engagement) are: B.P. crystals in bulk, 6s. 3d.; powder, 6s. 2d. per oz. The following are the prices of salts: Acetate, 6s. 3d.; arseniate, 6s. 1d.; bisulphate, 5s. 9d.; citrate, 6s. 2d.; hydriodide, 7s. 2d.; hydrobromide, 6s. 4d.; hydrochlor. B.P., 6s.; hypophosph., 8s.; nitrate, 5s. 11d.; phosphate, 6s. 6d.; and sulphate, 5s. 11d. per oz. net.

TARTARIC ACID.—As previously intimated, prices are rising in Italy, from whence sailings are infrequent, and on the basis of Italian rates holders maintain the spot price should at least be 3s. 5d., less 5 per cent., to come forward, which would make actual spot slightly more.

TURPENTINE.—A small business continues to consumers with a permit at 124s. 3d. for American on the spot.

VALERIAN-ROOT.—Indian is offered at 250s. and Belgian at 330s. per cwt. on the spot.

VANILLIN is slightly dearer at from 63s. 6d. to 65s. per lb., this being due to the recent substantial advance in clove-oil.

WITCH-HAZEL EXT. containing 15 per cent. alcohol is offered at 15s. per gal. net, but higher prices are expected, as further importations are unlikely for a lengthy period.

ZINC OXIDE.—The market in this and kindred products remains very bare of supplies, the home production being quickly absorbed, while very little foreign is available. The position of all zinc products is now largely under the control of the Ministry of Munitions. The exports of zinc oxide from the United States during 1917 were well over 13,000 tons, compared with 12,486 tons for the previous year.

### London Drug-auctions.

Commercial Sale Rooms,  
Mincing Lane, E.C., March 14.

A fair quantity of drugs was disposed of at the auction, and prices generally tended higher. Cape aloes on the whole was quiet, and prices declined from 2s. to 3s. for seconds. Sumatra benzoin was from 20s. to 30s. per cwt. dearer, and higher prices were again paid for Siam. Cardamoms met with rather more demand, and for calumba an advance of about 50s. was paid on previous prices. Dragon's-blood sold a little more freely at full rates, and East Indian dill-seed was sold at a slight decline. Gamboge is neglected; while for honey, which was in much-reduced supply, prices were again from 10s. to 20s. dearer compared with the last public sale. Ipecacuanha is quiet and barely steady. Kola, being scarce, sold again at advanced rates, and for Aden myrrh sorts higher prices were paid. Menthol (in prize) realised the prices paid privately. Rhubarb was quiet and unaltered. Grey Jamaica sarsaparilla sold at previous prices, and for Tinnevely senna rates were about steady. Chinese turmeric was rather dearer, and for beeswax there was no demand. The following table shows the amount of goods offered and sold:

	Offered	Sold		Offered	Sold
Acetic anhydride (clys.)	19	0	Anise, star	...	175
Aconite (Jap.)	...	6	Annatto-seed	...	90
Albumen	...	17	Apricot-kern.	...	33
Aloes—			Bayberry-bark	...	8
Cape	...	74	Benzoin—		
Scottrine and		35	Siam	...	8
Mocha	...	15	Sumatra	...	216
Ambergris	...	1	Boldo-leaves	...	12
Anise oil, star	...	41	Buchu	...	4

\*Sold privately.



	Offered	Sold		Offered	Sold
Burgundy pitch	3	0	Ipecacuanha—		
Calabar-beans	16	0	Cartagena	4	0
Calamus-root	39	0	Matto Grosso	27	6
Calumba	19	19	Kamala	3	0
Cannab. ind.	41	0	Kava-kava	11	0
Camphor	20	0	Kola	17	17
Canella alba	10	0	Laurel-berries	100	0
Cantharides	59	0	Lobelia	9	0
Cardamoms	64	48	Lycopodium	8	0
Cascarilla	1	*1	Manna	6	0
Chiretta	25	0	Matico	38	0
Cinchona	66	0	Myrrh	29	29
Colocynth and pulp	7	0	Menthol	21	20
Condurango	6	0	Mint oil (Jap.)	23	9
Coriander-seed	410	130	Olibanum	152	0
Croton-seed	3	3	Orange-peel	3	0
Cubebs	42	0	Rhatany	11	0
Cumin-seed	25	0	Rhubarb (Ch.)	56	13
Deer-tongue-leaves	5	0	Rosemary-leaves	20	0
Digitalis-leaves	95	0	Sandarac	5	5
Dill-seed	258	66	Sarsaparilla—		
Dragon's-blood	14	6	Grey Jam.	19	19
Eucalyptus oil	40	0	Savin-leaves	10	0
Egg yolk	6	0	Scopolia	4	0
Euphorbia pil.	20	0	Senna and pods—		
Fennel-seed	186	0	Alex.	31	0
Fenugreek-seed	120	0	Tinnevely	418	117
Galangal	40	0	Squill	131	0
Galls	23	0	Stramonium	6	0
Gamboge	31	0	Stavesacre	8	0
Gelatin	1	0	Terpineol	24	0
Grindelia rob.	18	0	Thyme-leaves	40	0
Guaiaacum	9	8	Tonka beans	22	*2
Gum acacia	316	1	Tragacanth	37	17
Gurjun oil (drms.)	30	30	Turmeric	30	30
Henbane	8	0	Turpentine	1	0
Henna	20	0	Wahoo-bark	2	0
Honey—			Wax (bees)—		
Chalifornian	75	75	Abyssinian	100	0
Chilian	385	134	East Indian	195	0
Cuban	5	5	Egyptian	155	0
Hawaiian	170	170	Jamaica	13	0
Spanish	58	58	Morocco	65	0
Insect-flowers	12	0	Mozambique	99	0
Jalap	20	0	Wax veg. (Jap.)	5	0
			Wine lees	13	0

**ALOES.**—Cape was dull of sale and from 2s. to 3s. lower. Good seconds sold at 50s. and ordinary to fair at from 45s. to 48s., slightly cindery ditto at 43s. to 44s., and common, part drossy to ordinary dull, at from 39s. to 40s. per cwt. Zanzibar aloes in skins continue extremely scarce, the value of fair hard being 100s. Of Moeha, 15 kegs offered and bought in. These are selling privately at from 55s. to 60s., as to quality.

**APRICOT-KERNELS.**—A lot of 38 bags (part wormy) sold subject at 53s., sample to be re-drawn.

**BENZON.**—Much dearer. The scarcity was somewhat relieved by the offering of 216 cases Sumatra, for which there was keen competition, and prices realised 20s. to 45s. above private valuations. A string of 60 cases of fair seconds, with small to bold pale almonds, sold at from 11l. to 11l. 5s., and country cut 8l. 17s. 6d. to 10l. 15s., and dust 5l. 15s.; 30 cases of good almondy seconds, with storax flavour, sold at from 13l. 5s. to 13l. 7s. 6d., and country cut 11l. 12s. 6d.; and a further lot of 126 cases fair seconds sold at from 11l. 5s. to 11l. 7s. 6d., and dust sawings 6l. Of Siam, eight cases offered, comprising four cases of small grains in shivery block, sold at 30l. 5s. per cwt., and four cases of brown blocky siftings sold at 19l. 5s. per cwt.

**BUCHU-LEAVES** sold at full valuation, four bales being offered and two realising 5s. 8d. for fair greenish, slightly stalky, round, and 5s. 10d. for a bale of good green round almost free from stalk.

**CALUMBA.**—The small supplies offered realised a further advance of 55s. to 60s. per cwt., 19 bags of medium to bold good picked yellow washed selling at from 220s. to 230s. per cwt.

**CARDAMOMS** were in slightly better demand, a new parcel being offered. Medium good pale bleached Ceylon-Mysore sold at from 2s. 9d. to 2s. 11d. and small pale at from 1s. 9d. to 1s. 11d., medium and bold good split 2s. 1d. to 2s. 2d., brown split and pickings 1s. 5d., and dullish seed 3s. 1d. Extra bold pale were bought in at 5s. and bold splits at 4s. per lb.

**COLOCYNTH.**—Seven cases sold without reserve at 10d. per lb., subject to buyer's approval of sample, which was not on show.

**CROTON-SEED.**—Three bags of fair Ceylon sold at 60s. per cwt.

**CUBEBS.**—For four bags of fair a bid of 17l. is to be submitted, the asking price being 18l. per cwt.

**DRAGON'S-BLOOD** is very scarce and dear, two cases of common dull and damp lump selling at 6l. 10s. per cwt. A further two cases of slightly blocky Zanzibar drop sold at

11l. per cwt., and for two cases of good ditto a bid of 14l. is to be submitted to the owner.

**EUCALYPTUS OIL.**—Forty cases analysing 65 per cent. and 76 per cent. of eucalyptol were limited at 2s. 7d. per lb.

**GAMBOGE** is neglected, and there is plenty of choice, the best lots of good fair Siam pipe, slightly blocky, being limited at 35l.

**GUAIACUM.**—A single cask of good glassy lump was bought in at 6s., and a further eight boxes, which were not on show, sold at 3s. per lb.

**GUM SANDARAC** was much dearer, five casks of fair yellow Morocco, slightly dusty, selling at 175s. per cwt.

**GURJUN OIL** sold at an advance of about 6d. per lb., thirty drums realising 1s. 9d.

**HONEY.**—The much reduced supplies met with good competition, and prices appreciated another 10s. to 20s. per cwt. compared with the last public sales, and were about equal to those that had been paid privately. Of Chilian, 335 kegs offered and sold, comprising good pale brown set and setting at from 185s. to 193s. Of Spanish, 58 packages offered and sold, comprising ordinary brown liquid at from 165s. to 166s. (one lot 191s.). Of Cuban, only four casks yellow set offered and sold at 192s., and a single barrel at 198s. Of Hawaiian, 170 cases offered and sold, comprising nice pale set at 197s. 6d. to 200s., and not quite so pale 195s.; ordinary dark brown setting, 185s. to 187s. 6d. Of Californian, 75 cases offered and sold, including good pale set at from 197s. 6d. to 200s., dullish ditto 195s., and yellowish set at from 187s. 6d. to 190s. Privately, a good business has been done, the sales including several hundred cases Californian at from 195s. to 200s. per cwt.

**INSECT-FLOWERS.**—Twelve bales of Japanese were bought in at 160s., but slightly less would buy.

**IPECACUANHA** was barely steady, a bale of fair leanish Matto Grosso selling at 11s. per lb., and five bales sea-damaged at from 9s. 2d. to 9s. 9d., and slightly ditto at 10s. 4d. Cartagena was held at 11s. for fair.

**KOLA** sold at an advance of about 3d. per lb., being much scarcer, 17 bags of small to medium dullish, slightly mouldy, West Indian halves selling at 104d. per lb.

**MYRRH** sold at about 20s. advance, 29 bales of small to bold good fair Aden, slightly blocky, sorts realising 11l. 5s. per cwt.

**RHUBARB.**—Quiet; a parcel of 13 cases sold without reserve, comprising medium to bold round Shensi, with three-quarters greyish pinky fracture, 2s. 1d., medium ditto 2s. 1d. to 2s. 2d., medium flat 2s., and small flat ditto 2s. Bold round horny High-dried, with three-quarters fair pinky fracture and one-quarter dark, was limited at 1s. 8d., and medium round Shensi, with three-quarters good pinky fracture, at 3s. 6d.

**SARSAPARILLA.**—Grey Jamaica, of which 19 bales offered, sold at previous prices, from 4s. to 4s. 1d. (one lot) being paid for fair.

**SENNA** was about steady and in slightly more demand; good greenish Tinnevely sold at from 54d. to 7d., middling to fair greenish 34d. to 44d., and common small to ordinary yellowish and sea-damaged 24d. to 34d. Pods were steady at from 3d. to 34d. per lb.

**SQUILL** is plentiful, and can be had at from 55s. to 65s. per cwt., as to quality.

**TONKA BEANS.**—Ten cases were offered, of which two had been sold privately, and 3s. was asked for the remainder, being fair Para.

**TURMERIC** sold at slightly higher rates than the previous sale, 30 bags of fair Chinese finger being disposed of without reserve at 51s. per cwt.

**WAX, BEES'**, was quite neglected, no public sales being made. Thirteen packages of Jamaica were retired at 12l., and for 100 bags Abyssinian 9l. was wanted for fair brown block, and also 9l. for 48 packages of Mozambique.

### Large Seizure of Opium.

The "North China Daily News" publishes interesting details of the seizure by the Customs of four tons of Persian and Patna opium which recently arrived in Shanghai per *Mishima Maru* from England (presumably London). It appears that the opium arrived with 2,400 cases of chlorinol (a bleaching-soda or water-softener), the cases of opium being apparently mixed up indiscriminately with the cases of water-softener. No doubt there was some key by which the numbers of the different cases could be identified by the recipient. The consignee in Shanghai, who applied for the permit to pass the goods through the Customs, has been interrogated, and repudiates all knowledge of the opium. The opium is valued at about \$1,000,000. In due course it will, no doubt, be destroyed in the Customs incinerator or dumped into the sea. Meanwhile the 2,400 cases of chlorinol are for sale by public tender. The Customs authorities have telegraphed to England for searching inquiries to be made with a view to proceedings being taken.





### The Price of Saccharin.

SIR,—Referring to your excellent editorial article on saccharin, we should like to express our appreciation of your suggestion that the Government should "announce their intentions" as soon as possible. However, at the moment this is not important, as supplies coming from America are comparatively small. When the shipment of saccharin was embargoed in the United States a few weeks ago, many of the exporters, as well as ourselves, were placed in a very bad position, because we had large stocks with a curtailed outlet, and our sales were mostly f.o.b. New York, so that until we had the goods actually on board we could receive no payment. A strong representation was made to the U.S. Government, strengthened, we believe, by the British Government, which resulted in actual stocks on hand being released. These are now on the way. As many of the trade, and almost all laymen, are saturated with the stories of the fabulous fortunes made out of saccharin, accentuated by your statement that the Government contemplate fixing the price at 120s. or 130s., duty paid, perhaps it might interest you to have a few actual figures on the subject. Our contracts for ton lots with the Monsanto Chemical works directly or indirectly average \$20 per lb. or, say, 84s., to which add 10 per cent. for shipping and insurance, say 92s., and add to this 72s. per lb. for Customs duty and you have 164s. ex wharf U.K. port. Therefore the Government, in fixing the price at 120s. to 130s., must expect the makers to reduce their prices accordingly; but why should they when practically their entire output for the year is contracted for at much higher prices? The British supply of home-manufactured saccharin is negligible in quantity at the present time, so a fixed price as contemplated will mean practically no saccharin.—Yours respectfully,

IRVING A. KEENE.

Gray's Inn Road, London, W.C. THE KEENE CO.

### The Proposed Compulsory Curriculum.

SIR,—I should like to protest against the recommendation of the teachers in pharmacy that only two examinations be held yearly—viz., in January and July—as I consider quarterly examinations preferable in the interests of students. The institution of a curriculum will not prevent failures, and if the recommendation be adopted a student who fails could not present himself for re-examination within six months, whereas with a quarterly examination he could attend again in three months—a decided advantage. I trust we are going to have the Qualifying examination divided with the advent of a curriculum, but so far nothing has been said on this point. I would suggest that the same regulation be adopted as for the Preliminary—viz., that the subjects be passed at not more than three examinations.

Yours faithfully,

A STUDENT. (11/3.)

### Lard-free Ointment-basos.

SIR,—Like Mr. J. W. Privett (*C. & D.*, March 9, p. 51) I have been experimenting on a substitute for lard, which is now practically unobtainable. I find the following very suitable:

Paraffin, dur. alb.	...	...	1½ oz.
Paraffin, mollis alb.	...	...	14½ oz.

Melt together and stir till cold.

I have tried it for ung. hydrarg. mit., ung. hydrarg. ammon., ung. sulphur., etc., and find it quite satisfactory. When selling these ointments I affix to bottom of box or container a ½-oz. label thus: "This preparation is guaranteed British Pharmacopoeia strength, though the formula is somewhat altered." I have also found the above formula suits equally as well as lard in the manufacture of cold-cream, pomades, etc.

Yours faithfully,

S. L. (26/9.)

### The Title "Chemist"

SIR,—I presume some members of the Institute of Chemistry are doctors of science, maybe, also doctors of literature, and perhaps doctors of divinity. To the plain man in the street the title "doctor" refers to members of the medical profession. I should advise the superintendents of the Institute to apply their learning to the invention of a title suitable to their own self-esteem. It would be in far better taste than throwing mud at a respectable body of men who are recognised by the public as a go-between for them and the "real" doctor.—Yours truly,

LANCASHIRE LAD. (26/27.)

### Serving the Country.

SIR,—There must be many chemists who, like myself, are members of the "A" Section of the Volunteers. It would be interesting to know what arrangements they are making in case of a more or less permanent "call out." In my opinion, that is sure to come, and before long. I have worked hard with them since the first month of the war, and am prepared to see it through, but must confess I don't like having to leave my business, which I am running with the aid of two girls, and which would collapse in a month if I were not there. Surely there are many retired chemists who in such an emergency would not object to coming forward and helping to save at least a nucleus for one to come back to.

Yours truly,

PRO PATRIA. (27/20.)

### Epidemic of Hair-falling.

SIR,—The reply to a correspondent of THE CHEMIST AND DRUGGIST on the subject of an epidemic of hair-falling was followed by a meeting of hairdressers, who, discussing the problem at some length, adjourned for further discussion of the mysterious influences causing almost universal hair-loss throughout the country. The problem has been daily presented to the writer for the past few months, and the usual explanation that the hair is falling by reason of the "time of the year" has not proved a satisfactory solution. Microscopical examination of affected hairs, together with searching inspection of the scalp in a wide range of cases, has revealed conditions quite abnormal, and not to be confounded with the "dead hair" annually shed as a natural process. Conclusions have been reached in these investigations during the period named by which, at least to the writer, a satisfactory theory as to the predisposing factors may reasonably be established, and, while convinced of the high therapeutic value of local external applications—not merely as "stimulating" lotions, but compounds of acknowledged efficiency in eliminating the results of toxic influences upon the scalp—the insistent indication of judicious internal treatment as an adjunct is fully indicated. The present epidemic of hair-falling may easily be traced to gastro-intestinal influences, resulting not only from the quality and nature of war diet generally, but from nervous conditions arising from many obvious causes in present-day life, exerting a depressing effect upon certain temperaments with proportionate arrestation of the normal functions of the stomach. From either or both of these causes absorption of morbid products from the gastro-intestinal tract results in toxæmia of the blood, producing many external conditions which, to careful observers, are symptomatic of other and more grave constitutional derangements, and which are obviously outside the scope of those usually called upon to remedy the loss of hair by local means. There are usually other immediate disturbances co-existent with, or contributory to, the loss of hair. Accepting, then, the theory of toxæmia of the blood arising from the causes named, the accompanying malassimilation of the nutritive processes, and, too frequently, the results of an imperfect or delayed excretion of waste products of the digestive process, the sequelæ are soon found in numerous skin-affections, largely represented by gouty, eczematous types, all exerting an influence upon the sebaceous glands and hair-follicles. An atrophied condition inimical to hair health and growth ensues. Opportunities may present themselves to the pharmacist to suggest modifications of the dietary, even within the regulations of the Food Controller, and indicate suitable remedies for the re-establishment of normal evacuations and the elimination of all toxic conditions, and to assist assimilation. In this direction the pharmacist may supplement the sale of his own or advertised remedies for hair-falling. It may be urged that these matters are more correctly within the scope of the medical profession, but the pharmacist may effectually be of service in this, and not only earn and secure the gratitude of his customers by an efficient appreciation of cause and effect, but add reputation to the sum total of his daily receipts. The writer submits these observations in the hope that they may effect good and practical results to pharmacists and their patrons alike.

HAIR SPECIALIST. (187/15.)

### Subscribers' Symposium.

*If we all had our Deserts.*

*Scirbo* (81/8) calls attention to the comprehensive character of the new regulation regarding outdoor photography and sketching. According to this Order no person may carry on him anything suitable for making the representation of any place or thing. It follows that as most people carry on their persons pencils, fountain-pens, and paper of some kind, not to mention white starched cuffs, they should all, if they had their deserts, be fined 100*l.*, or be sent to prison with hard labour for six months.



### Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

*Owner* (4/3) recently bought a two-storey warehouse, "free from all encumbrances, servitudes, rights of way, etc." The roof of the warehouse is separated from the roof of the adjoining premises by a wall running from the front to the back of the building. Through this wall there is a hole through which the rain-water from the adjoining roof drains on to "Owner's" roof. Is "Owner" entitled to stop up the hole? ["Owner" does not state when and in what circumstances the hole was made in the wall; nor does he state whether he has suffered or has reason to apprehend damage to his property as the result of the existence of the hole. In the absence of full knowledge of the facts it is impossible to say whether "Owner's" remedy is against the vendor of the warehouse or against his neighbour; or, indeed, whether he has any remedy at all. "Owner" should obtain the advice of a solicitor as to the course he should adopt.]

*Alpha* (18/71) ordered a camera from the manufacturers to be sent to his brother in India. He gave no instructions with regard to insurance, and the manufacturers despatched the camera to India by post, charging the postage on the invoice. The manufacturers did not insure the camera, and the vessel carrying it was sunk during the voyage, the camera being lost. Are the manufacturers liable to "Alpha" in respect of the loss? Alpha also asks whether he is acting legally in lending his motor-car to his chauffeur for use by the latter in carrying on an independent business of his own. The chauffeur supplies his own petrol. [The Sale of Goods Act provides that, unless otherwise agreed, where goods are sent by the seller to the buyer by a route involving sea transit, in circumstances in which it is usual to insure, the seller must give such notice to the buyer as may enable him to insure them during their sea transit, and, if he fails to do so, the goods are deemed to be at his risk during such transit. We are of opinion that in the case in question the loss of the camera must fall upon the manufacturers unless they gave such notice to "Alpha" as would give him an opportunity of insuring the article. The manufacturers might, however, successfully plead that it is not customary to insure cameras supplied in such circumstances, although this is not our view. "Alpha" would not be acting illegally in lending his car to his chauffeur to be used for any of the purposes authorised by the Board of Trade under the Defence of the Realm Regulations.]

*Gnome* (7/52) is a qualified superintendent with a fixed salary in a pharmacy which belongs to a private company. He is also a shareholder holding one share only in the company, which is a "one-man" company. Although "Gnome" has been now for three years a shareholder, the managing director has never disclosed the financial position of the concern to him. He wishes to know if he has any legal right to know what this position is, and if he is entitled to attend any meetings of the shareholders, and what is his position towards the company generally. He also asks whether the company can bind him by agreement not to open a business to compete with it within a certain radius; and whether the contracts entered into with the Insurance Committee to dispense medicines to insured persons ought not to be signed by him for the company. ["Gnome," as a shareholder, is entitled to receive a summons to and to be present at every meeting of the shareholders. A meeting of the shareholders must be held at least once in every calendar year, and at the annual general meeting the directors are required to report as to the course of business and to present a signed balance-sheet setting out the financial position of the company. There is nothing to prevent the company entering into a contract with "Gnome" binding him that he will not, after he leaves its service, enter upon business in competition with it within a certain radius, provided the restraint imposed on him thereby is not greater than is reasonably necessary for the protection of its business. It is assumed that the company is in the list of the Insurance Committee under Section 15 of the National Health Insurance Act—that is, the company has satisfied the Committee that all medicines supplied by it to insured persons shall be dispensed either by or under the direct supervision of a registered pharmacist; if this is so, the company can enter into these contracts with the Committee in the same way as it enters into other contracts, and need not have the contracts signed by "Gnome."]

### Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

*W. M. C.* (4/65).—PARAFFIN TREE-WASH.—It is ordinary paraffin as employed for lamps that is used in making paraffin tree-washes. A number of formulæ were published in *The Chemist and Druggist Diary*, 1910, but you possibly have in mind recipes sent out by the Department of Agriculture of Ireland.

*A. B. & Co.* (13/16).—The sample of white soft paraffin is a natural product refined. It cannot be made on a small scale.

*A. W. B. S.* (1/11).—MANUFACTURE OF TOILET-PREPARATIONS.—"Pharmaceutical Formulas" is the best general work on this subject, to which special chapters are devoted.

*W. E. H.* (32/29).—BOOKS ON DISINFECTANTS.—Rideal's "Disinfection and the Preservation of Food" (Sanitary Publishing Co., 15s.); Christian's "Disinfection and Disinfectants" (Scott, Greenwood, 5s.).

*Midnight* (7/60).—SOLIDIFIED SPIRIT may be manufactured now by those who have a supply of methylated spirit which was not obtained on condition that it would not be employed for burning-purposes. If you have not a supply of spirit free from restrictions you might turn your attention to the manufacture of trench-candles (*C. & D.*, January 26, p. 51).

*Bacteria* (3/35).—BOOK ON BACTERIOLOGY.—Moor and Partridge's "Aids to Bacteriology" (3s.) is suitable for beginners. Seales' "Practical Microscopy" (5s.) is good for microscope technique. Both books are published by Baillière, Tindall & Cox.

*Harrow* (53/16).—Your inquiry as to "how to retain coloured spirit or water from which the colour disappears after a time" is much too general. If you place before us the full particulars of the case you have in mind, we shall be glad to advise you.

*J. T. B.* (187/5).—MALT AND OIL.—Warming candied malt and oil clears it, but the activity of the malt-extract is liable to be destroyed, and the warmth does not improve the cod-liver oil.

*G. W. B.* (196/15).—PROTEID VALUES.—(1) An average hen's egg, according to Atwater's analysis, yields 6.6 grams of protein. The ordinary edible casein varies from 80 to 90 per cent. protein, usually calculated as 90 per cent.; this would mean that 7.26 grams is necessary to be equivalent to that of an average egg. (2) The statement that one teaspoonful of plasmon is equal to a quart of milk in protein values is obviously a mistake. A quart of milk, weighing 17,500 grains in round figures, would contain at least 560 grains of protein, since milk contains 3.2 per cent. on an average. A teaspoonful of plasmon, as weighed by the writer, contains 5.5 grams, or about 5 grams of protein, which would yield in round figures about 80 grains of protein, so that one teaspoonful of plasmon would be equal to between 5 and 6 oz. of milk in protein value. (3) It is a great advantage to make the casein soluble, because the acid juices can act more quickly on it, as the powder is deposited in a flocculent manner by the acids, otherwise it would be presented in agglutinations.

### Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," March 14, 1868.

William Herapath, F.C.S., J.P.

This well-known analytical chemist and toxicologist died on the 13th ult., in the seventy-third year of his age. His father was a maltster in Bristol, and after his death Mr. Herapath succeeded to the business. His calling led him to study chemistry, and, finding the cultivation of the science a congenial pursuit, he became a diligent worker in the laboratory and carried out many original investigations. His name is connected with the curious crystalline compound *Herapathite*, or iodoquinine-sulphate, which he discovered. The crystals of this compound possess all the optical properties of tourmalines, and are occasionally substituted for the latter in experiments with polarised light. Mr. Herapath was best known as a toxicologist, and his opinions and experiments are referred to by most writers on medical jurisprudence.



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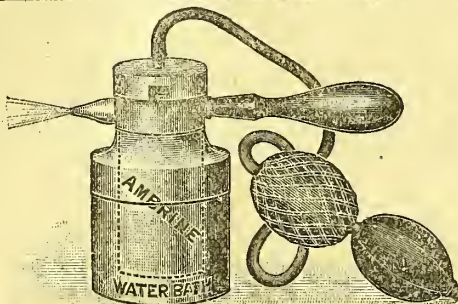
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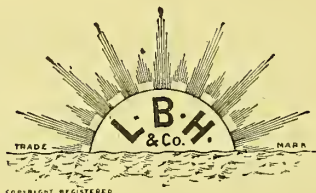
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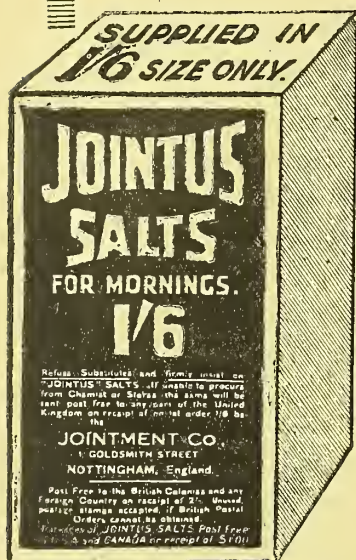
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Lathers in hard water.  
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Syn.: Tri-methenal allylic carbide compound.

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 "YADIL" Antiseptic has been adopted in a large number of hospitals and sanatoria for the internal and external treatment of diseases of micro-organic origin.

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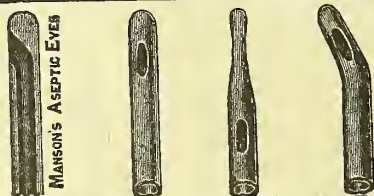
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**FREE FROM FLIES**

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**1-each PATENTED GUMMED ON BOTH SIDES**

A wide band, sticky on both sides, unrolling like a blind.

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**HOT WATER BOTTLE**

**Guaranteed Unleakable**



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7" x 10"	4/8	7/-
7" x 12"	5/4	8/-
8" x 10"	5/-	7/6
8" x 12"	5/8	8/6
8" x 14"	6/1	9/2
9" x 12"	6/-	9/-
10" x 12"	6/5	9/8
10" x 14"	7/3	10/10
10" x 16"	7/9	11/8
12" x 16"	8/6	12/9

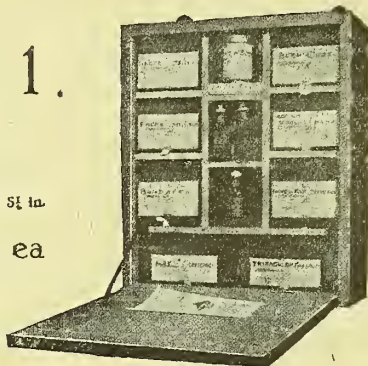


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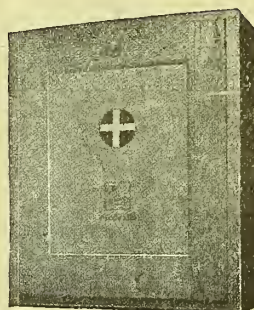
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Dimensions: 15 by 12½ by 5½ in.

45/- ea



Carriage paid. Net cash with order. Wholesale terms on application.

Complying with the requirements of the Home Office First Aid Order of October 12th, 1917, in Blast Furnaces, Copper Mills, Iron Mills, Foundries and Metal Works

As recommended also in the Memorandum on Sickness and Injury issued by the Health of Munition Workers' Committee, such First Aid provision is desirable in all Factories, Work shops and premises in case of accidents.

JOHN TIMPSON &amp; Co., Ltd., 104 &amp; 106, Golden Lane, London, E.C.

**ROBT. BAILEY & SON,**

SOLE PROPRIETOR: A. BAILEY.

**Marriott Street Mills,  
STOCKPORT.**Telephone No.  
Stockport 694.Telegrams:  
"UNDISPUTED STOCKPORT."

MANUFACTURERS OF

**SURGICAL DRESSINGS  
ABSORBENT GAUZE TISSUE,  
COTTON WOOL, BANDAGES.  
LINT, TOW, &c.  
PATENT FOUR-PLY GAUZE.  
SANITARY TOWELS.**

**BRITISH MADE  
AND  
BRITISH OWNED.**

WHOLESALE ONLY. Write for Samples and Prices.

**"WAVCURL" promotes Curly Hair.**

Get ready to sell. This preparation is largely advertised, and the public want it. It is well recommended for curling the hair, and there is nothing like it on the market. It is of thoroughly British manufacture. You should stock it. We allow about 50% profit. It sells at sight.  
1 dozen packets, retail 1/6 each, at 9/- per dozen.  
1 dozen Fluid (in bottles), retail 2/9 each, at 21/- per dozen (P.A.T.A. protected).

THE NEW WAVCURL COMPANY, Fullwood House, High Holborn, W.C.1.

**Viuda de José Solernou**

Diputación 164, Barcelona, Spain.

AGENCY & REPRESENTATIVE HOUSE. ESTABLISHED IN 1875.  
Member of the British Chamber of Commerce at Barcelona.

AGENCIES WANTED FOR GOOD-CLASS CHEMICAL AND PHARMACEUTICAL SPECIALITIES.

Trade Mark—SILWYR, LONDON.



Size of Brush—6½ by 1½ in.

60 doz., 9/6 per doz.; 30 doz., 10/6 per doz.

This price includes a Celluloid Tablet, 5½ in. by 1 in., printed in two colours, fixed in the back of the Brush; your own sketch or wording.

This Cloth Brush is made of pure bristles, and is of best English manufacture. Quotations for larger quantities obtainable of—

**M. NEUHAER & LEVI, Brush Manufacturers,  
11 Fore Street, London, E.C. 2.**



# It mends without Stitches



## Mend-a-Tear

PATENT

To the "mere man" this wonderful material will be indeed a boon.

To his wife and sister quite as useful. There's hardly an article of clothing which it will not repair successfully, and as regards macintoshes, well, their repair, hitherto impossible, is now the easiest thing imaginable.

We are stimulating demand by an aggressive advertising campaign in the public press—will you supply?

**Sells at 1/- per Carton**

(khaki or general) and carries an exceptionally generous profit.

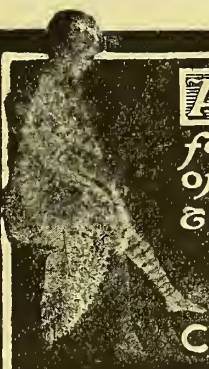
**LEICESTER RUBBER CO., LTD.,**

18 Granby Mills, **LEICESTER.**

1190



Makers of the famous John Bull  
Cycle and Motor Cycle tyres.



An absolute  
necessity  
for thousands  
of men & women  
the  
**NORVIC**  
**CREPE BANDAGE**

**Superior English Manufacture.**

Extremely elastic, but contains no rubber.  
Fast woven edges.

Invaluable for binding. Displaces rubber and elastic web. More durable and one-third the cost. The Norwich Crepe Bandage containing wool, provide warmth and do not absorb grease readily. Self-clinging and self-adjusting. Perfectly cleansed, sterilised, and resiliency entirely restored by washing in hot soft water (with addition of a little soap). The edges will not fray out nor ravel. Made and supplied to the leading wholesale houses, neatly wrapped in labelled packages. Commended by the medical and nursing professions. Send for prices and samples to the sole manufacturers:

**The NORWICH Crape CO. (1856) Ltd.**  
St. Augustine's Silk Mills, **NORWICH, ENG.**

Provincial  
Selling Agents:—  
Freese & Moon,  
Ltd.,  
59 Bermondsey  
Street,  
London, S.E. 1.



London buyers  
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Eastaway, Lon-  
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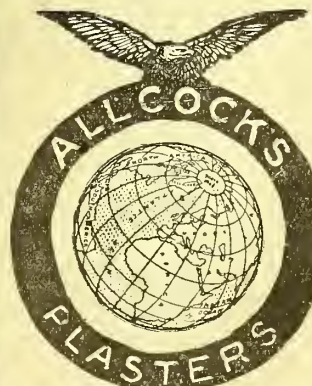
ESTABLISHED 1847.

## Allcock's PLASTERS

A REMEDY OF 70 YEARS' STANDING.

**Allcock's Plasters**  
**Allcock's Corn and**  
**Bunion Plasters**  
**Brandreth's Pills**

*The  
Three  
Reliables.*



Prices and Terms  
on  
application to

**ALLCOCK** -  
**MANUFACTURING**  
**COMPANY** -

22, Hamilton Sq.,  
Birkenhead,  
England.

"Sold all round the World."



SPECIFY

**Armour's****RENNASE**

A Milk Curdling Ferment recommended as equal to Standard Rennet.  
**FOR CHEESE MAKING.**

**PRICE LIST.**

8 oz. bottles	....	....	....	per doz.	<b>45/-</b>
16 oz. "	....	....	....	"	<b>84/-</b>
Quart "	....	....	....	each	<b>14/-</b>
$\frac{1}{2}$ gall. "	....	....	....	"	<b>22/-</b>
1 gall. "	....	....	....	"	<b>40/-</b>

**F.O.R. LONDON.**

The following letter is from one of the largest Cheese Makers in the United Kingdom respecting the use of Rennase :—

"I set the curd at 86° F., and treated it in exactly the same way as any other barrel of Cheese. The milk coagulated in the usual time—about 1 hour. I added the Rennase to the milk in the proportion of 5 oz. to 100 gallons, and it made a nice firm curd, splitting cleanly over the finger, and when cut and stirred the whey soon settled. When ready for grinding the curd had a very nice texture, a clean acid smell, and drew threads  $\frac{3}{4}$ -in. on the hot iron.

"We shall be glad to receive the quantity of Rennase ordered to-day, so that we can continue using it."

*Directions for use on each package.*

**ARMOUR AND COMPANY**

QUEEN'S HOUSE, KINGSWAY.

**LIMITED**

LONDON, W.C.2.





# THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, MARCH 16, 1918

This Supplement is Inserted in every number of The Chemist and Druggist.

## CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—SURREY.—Vendor retiring; very old-established Business; Dispensing and Retail; held by vendor upwards of 40 years; returns, present rate, about £2,500; net profit between £500 and £550; the premises are situate in the centre of town; there is an excellent opening to extend the turnover; further particulars on application.

2.—LONDON, N.—Ready-money Retail, with small Wholesale connection; corner shop, situate in busy market neighbourhood; the business has been much neglected; returns, under management, £1,795, at good prices; scope for development under personal supervision; vendor retiring; no reasonable offer refused.

3.—LONDON, W.—Busy main thoroughfare; established Business; all cash trading; returns last year £2,100; net profit £350 to £400; double-fronted shop, with excellent residence; terms, goodwill £200; stock and fixtures at valuation; vendor retiring.

4.—KENT (Suburban).—Good middle-class Retail and Dispensing Business; returns, under Manager, exceed £1,400; net profit £360; books audited by an Accountant and Stock taken annually; price £750, to include £90 book debts; part payment would be considered.

5.—MIDDLESEX (Few Miles Out).—Good-class Dispensing and Retail Business, giving a net profit of about £500 yearly; having known this business for some years, we can personally recommend it to your notice as a bona-fide investment; valuation terms.

6.—LONDON, S.W.—Good middle-class Family and Dispensing Business, situate in select residential district; returns between £1,600 and £1,700, with scope for development; attractive Pharmacy, and large residence with private entrance; price £500; the stock and fixtures were recently valued by us at £730; this is an opportunity seldom met with.

7.—KENSINGTON, W.—Dispensing and Retail Business; returns £800, formerly £1,000; well-fitted shop and comfortable residence; held on lease; first reasonable offer accepted; death cause of sale.

8.—FOR DISPOSAL, well-known Proprietary Business, which has been established upwards of 100 years; gross receipts average £2,750, and the net profit £773; price, to include goodwill, stock, plant, and book debts, £5,000.

9.—SOUTH COAST (Death Vacancy).—Ready-money Business; no near opposition; returns last year £900 at fair prices; to effect a speedy transfer about £450 would be accepted, part payment.

10.—HANTS (Seaport).—Established Business, Retail, Dispensing and Prescribing; returns £500 at good prices, practically no patents being sold; rent £30 per annum; price about £250.

11.—SURREY (Good Class Town).—Cash Retail Dispensing Business; returns, under Assistant, £14 to £17 weekly; price £160.

12.—MIDLANDS.—Vendor retiring; good-class Dispensing and Retail Business; excellent situation; returns exceed £2,000 yearly; well-appointed shop and good residence; valuation terms entertained; books properly kept and periodical stocktaking.

13.—LONDON, N.—Middle-class Business; Retail Dispensing and good sale for own Proprietaries; gross receipts £800; net profit £200; price £250; less than value of stock and fixtures.

14.—NORTHERN COUNTY.—Good-class Retail and Dispensing Business; established many years; returns between £900 and £1,000; profits good; large residence with private entrance; vendor will accept valuation of stock and fixtures.

## VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

**ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.**

## BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

DEVON.—Very neglected Business, under Managers (owner in Army since 1914); returns, 1914 £1,531, 1915 £1,435, 1916 £250, 1917 £746, now increasing; large double-fronted shop, counter on each side, five store rooms, good connection with a large school; good market town, centre of splendid agricultural, sporting, and educational district; stock recently valued at £900; price, valuation less a rebate, or reasonable offer. Apply 64/14, Office of this Paper.

HOVE.—For immediate sale, small neglected business, good corner position, look-up shop, at valuation of stock and fixtures. "J." 2 Stoneham Road, Hove.

LONDON, S.W.—General Business for Sale in good suburb; returns £1,900, increasing yearly; satisfactory reasons for selling; proprietor will remain for a time if necessary; price £450, or offer. Apply 66/23, Office of this Paper.

NORTH LONDON.—Open and residential district; old-established Dispensing and Retail Pharmacy; good Proprietaries; fullest investigation entertained; owner retiring; will accept £500 for immediate sale, or reasonable offer not refused. Apply "L." (65/32), Office of this Paper.

SOUTH WALES.—Old-established Chemists' Business for Sale; modernized throughout; rent £250; sub-let £132 12s.; late proprietor dead, widow retiring; takings over £60 weekly, increasing; cash business; fullest investigation; price £2,500, or nearest offer. Apply "Exors." (62/16), Office of this Paper.

WALLASEY.—Old-established genuine Light Retail; exceptionally profitable; few Patents; turnover £1,200; good house; splendid position; could be greatly increased by right man; price, valuation, about £450, and small goodwill. Apply Kennedy, 2 Park Road, Liverpool.

WEST RIDING OF YORKSHIRE.—For immediate disposal, owing to death of late owner, Chemist's and Druggist's old-established Business; shop and warehouse well stocked; good industrial and agricultural connection; turnover £750; splendid chance for smart man. Apply 9 Oulton Terrace, Horton Road, Bradford.

AT once, owing to ill health, sound Light Retail, doing £1,000, increasing; good-class suburb near Leeds; beautiful district; good house and shop, well-fitted and stocked; unlimited scope; capable man could double; sacrifice at £350, or near offer for quick sale; owner ordered South. Apply 65/33, Office of this Paper.

BUSINESS in commanding suburban position, returning between £1,100 and £1,200; net profit one-third; books properly kept, and good reasons for disposal. Apply "X. Y. Z." (65/15), Office of this Paper.



## THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS,  
AND EXPERT STOCKTAKERS,  
45a MARKET STREET, MANCHESTER.  
ESTABLISHED OVER HALF A CENTURY.  
Telegraphic Address: "Tomtom."

## BERDOE & FISH

VALUERS & TRANSFER AGENTS,  
35 Jewry Street, Fenchurch Street, E.C.3.  
Telephone: 1809 CENTRAL.

### NO CHARGE TO PURCHASERS.

- 1.—SOUTH-WEST COAST.—Good-class Dispensing and Light Retail, in commanding position; well fitted; fully stocked; returns £1,160; net profit £300; good house; price £50 and valuation; in all about £850.
- 2.—HERTS (Market Town).—Most desirable Light Country Retail; easily worked; returns about £900; good profits; excellent house, bathroom, etc.; very best position; well stocked; price for prompt sale, £400, or near offer.
- 3.—KENT (Suburb).—Good progressive Middle-class Business; no booking; returns £1,850; net profit £450; books properly kept; convenient house; handsome Pharmacy, heavily stocked; price £50 and valuation; about £1,000; strongly recommended.
- 4.—NORTH WALES COAST.—Unopposed, sound Light Retail, returning £700; net profit £250; up-to-date Pharmacy, well fitted and stocked; price £300 or valuation.
- 5.—WEST END.—High-class Dispensing business in prominent position; returns average over £2,000; net profit £620; excellent chance for two smart men; price for quick sale £950, or small goodwill and valuation.
- 6.—LONDON, S.W. (Good Residential Suburb).—Sound, progressive, good-class Business; returning over £1,900; main road position; good residence; attractive Pharmacy; well stocked; price for quick sale £500; only requires seeing.
- 7.—NORTH LONDON (Healthy Suburb).—Sound progressive Cash Business for immediate disposal through serious illness; returns £1,150; net profit fully £300; fine modern Pharmacy; excellent main road position; low rent; price £750 or offer.
- 8.—LONDON SUBURB, S.E.—Cash Drug Stores, in good position; plenty of scope; returns £500; net profit £220; books properly kept; low rent; corner shop; good house; well stocked; price £250.

### STOCKTAKINGS.

We are now booking stocktakings for April and May, and are open to undertake one or two large ones during these months. Appointments should be made early to avoid dates clashing. Terms sent on application.

### BUSINESSES FOR DISPOSAL (continued).

FOR Sale, Ready-money Business; low rental; established 85 years; death vacancy; annual returns £2,000; unopposed; Dispensing, N.H.I. 10,000; no goodwill; stock and fixtures only about £450; very exceptional opportunity. Apply Marson & Son, Chemists, Stafford.

FOR Sale, in small North Lincolnshire town, an old-established Drug Stores, doing nice business; owner retiring; stock good and up to date; would stay with purchaser if necessary a week or two; good house and outbuildings, and opening for Veterinary Surgeon; the going concern about £400; or stock at valuation. Apply 48/26, Office of this Paper.

UNOPPOSED; very old-established, brisk middle-class Retail, Dispensing, and Prescribing Business near London; returns over £900; net profit £350; rent £26; shop well stocked; situate best position main road; large garden; price £300 on entry, £200 by instalments; trial allowed; genuine. Apply 65/38, Office of this Paper.

£70 to £80 per week, principally own Proprietaries and general trade, BOLD CENTRAL POSITION London, S.W., good up-to-date fittings, heavy modern stock, low rent, and worked very economically, showing exceptional profits; price all at £2,500 (no offers); turnover could be doubled in six months by a live man; no agents; principals giving banker's reference only acknowledged. Reply to 66/300, Office of this Paper.

£1,500 A YEAR.—Branch for Sale, central position, in large industrial town in South Wales; profitable; low rental; long lease; good working stock. Apply "L. D." (28/1), Office of this Paper.

### AGENCIES.

REPRESENTATIVE resident in Dublin, covering the whole of Ireland in three monthly journeys, having good and sound connection with Chemists, seeks additional line on commission; Packed Goods, Drugs or Sundries, at present doing Toilet preparations. Apply 65/8, Office of this Paper.

## FOR SALE.

FOR Sale, 30,000 Saccharine Tablets, 1 gr., 16s. per 1,000; Dental Chair, in good condition, £6; Gledhill Cash Till Receipt Roll, nearly new, cost £8, take £6. T. Andrews, 126 Stephendale Road, Fulham.

FOR Sale, 1½ lb. Oil Juniper Berries, B.P.; 1,000 tablets Phenolphthalein, gr. 7½; 2 3-oz. Rodinol; 2 1-oz. Thiochol Powder (Roche); 2 1-oz. Sulphonol (Bayer); 3ij. Eserine Salicylate; 5ij. Eucain Hydrochlor.; 5ij. Morphia Sulph.; 2 1-oz. Amidol; 5iv. Ol. Lupuli. S. Connor & Sons, Newry.

MIXER with extra strong arms; will mix about 4 cwt. consistency of putty; a very fine machine; price £130 F.O.R. Apply 62/28, Office of this Paper.

MIXER, very strong, for power; suitable for Pill Paste or the like; mix about 200 lb.; never used; price £70. Apply 62/280, Office of this Paper.

## BUSINESSES WANTED.

MANCHESTER OR DISTRICT.—Wanted to purchase, small Business with scope for increase; particulars treated with strictest confidence. Please state price and full particulars, 64/19, Office of this Paper.

BUSINESS wanted; London or provincial town; returns from £800 to £1,200. Full particulars in confidence to "Wilson" (64/11), Office of this Paper.

## LEGAL.

WILLIAM FRAZER JACKSON, DECEASED.

PURSUANT TO THE STATUTE 22 AND 23 VICTORIA, CAP. 35.

NOTICE is hereby given that all persons having claims against the estate of William Frazer Jackson, late of 175 St. John Street, Clerkenwell, E.C., and of 6 Aden Terrace, Green Lanes, Stoke Newington, N. 16, Chemist, deceased (who died on the 11th day of November, 1917, and whose will was proved on the 16th day of February, 1918, by William Frederick Jackson, one of the Executors therein named), are hereby required to send written particulars of their claims to us the undersigned on or before the 28th day of March, 1918, after which date the Executor will proceed to distribute the assets of the said deceased, having regard only to the claims of which he shall then have had notice; and he will not be liable for the assets of the deceased or any part thereof so distributed to any person or persons of whose claims he shall not then have had notice.

Dated this 21st day of February, 1918.

POTTER, SANDFORD & KILVINGTON,

Solicitors for the said Executor.

120 Queen Victoria Street, London, E.C. 4.

## TENDERS.

GUY'S HOSPITAL, S.E. 1.

DRUGS AND SURGICAL DRESSINGS.

THE House Committee invite Tenders for the supply of Drugs for prompt delivery.

Tenders are also invited for the supply of Surgical Dressings for twelve months from April 1st, 1918. A list of these, with further particulars and form of Tender, may be obtained on application at the Superintendent's Office.

Tenders, duly sealed, are to be sent to the Superintendent's Office not later than 12 noon on Monday, March 25th, 1918.

## SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

### RETAIL.

BALHAM.—Assistant (at once), with good Counter experience, Dispensing, and Prescribing; intelligible. Cooper, 1 Ramsden Road, Balham, S.W.

BATH.—Assistant, either sex, to help generally in first-class business; moderate hours. Apply 65/28, Office of this Paper.

BIRMINGHAM.—Lady Assistant required (immediately) for progressive business, near the centre of the city; must be a good Dispenser. State salary required and when at liberty, "B. S." (64/131), Office of this Paper.



**BIRMINGHAM.**—Assistant, unqualified, with high-class experience; must be well informed and of gentlemanly deportment; as First Assistant in City business; liberal salary to suitable man. Apply, with full particulars, to General Manager, Hedges (Chemists), Ltd., Dale End, Birmingham.

**BRIGHTON.**—Junior Assistant (at once); Light Retail, without N.H.I.; knowledge of Photography an advantage; permanent progressive position for right man. State age, when free, and salary expected. Stead, Duke Street, Brighton.

**BRIGHTON (Outdoors).**—Competent Assistant wanted; duties mainly Dispensing, with some Counter work; hours 9-7.30, Wednesday 9-9, Thursday 9-1, Sunday duty (on alternate Sundays) 9-2 and 6-8. Apply, with full particulars as to experience, age, and salary required, enclosing photo, J. Colby & Co., 101 Western Road, Brighton.

**CORNWALL.**—Lady Assistant required for a good-class country business (Family and Dispensing), also Photography. Apply, stating experience and salary required (outdoors), to C. Wakeham & Son, Chemists, Helston.

**DARLINGTON.**—Lady Assistant required; qualified or unqualified. Apply Waters, Chemist, Darlington.

**EALING, W. 5.**—Wanted, a gentlemanly, capable Managing Assistant, accustomed to a high-class Dispensing business; ineligible for Army; outdoors; hours of business 8.30 to 7; no N.H.I.; others kept. Apply, giving full particulars, to Mr. Lewis, Chemist.

**GLOUCESTER.**—Assistant required (male or female); outdoors; good-class Dispensing and Light Retail. State full particulars, with salary, to Ward & Woodman, Gloucester.

**KILBURN.**—Part-time Assistant (gentleman); any reasonable hours arranged to suit applicant. R. R. Pratt, 94 Canterbury Road, Kilburn (near Queen's Park Tube, Bakerloo).

**LANCASHIRE.**—Young lady, with a little experience of Counter work and Dispensing, required for Light Retail and Dispensing business; comfortable berth; progressive salary. "Lanos" (64/134), Office of this Paper.

**LEEDS.**—Wanted, Junior Assistant; lady or gentleman (ineligible); Light Retail and N.H.I. Dispensing. Give full particulars in first letter, age, salary, and reference, to E. Brownbill, Chemist, 176 Woodhouse Street, Leeds.

**LONDON, N.**—Wanted (at once) for Saturday evenings (5.30-8.30), a reliable, qualified (preferred) Assistant; if a gentleman one ineligible for the Army, with good experience in Dispensing and also at the Counter. David Anderson, 21 Broadway Parade, Crouch End.

**LONDON, N.E.**—Wanted (immediately), qualified Manager; must be energetic, and capable of taking entire charge of high-class business; an exceptional opportunity is offered for the right man; could live on premises if desired. State full particulars, 65/19, Office of this Paper.

**LONDON, N.W.**—Junior Assistant wanted for Dispensing business; gentleman discharged from Army (or one in low category), or lady if experienced, and some knowledge of Counter work. Please state age and salary required to H. Williams, 31 Heath Street, Hampstead, N.W. 3. Also wanted, temporary part-time Assistant for evening work.

**LONDON (SOUTH).**—Young woman wanted, experienced, to dress Windows and Counter, put up Stock, etc.; Wholesale or Retail experience; no Counter; learners not entertained; good salary to capable person. Reply to 66/3, Office of this Paper.

**LONDON, S.E.**—Trustworthy and reliable, qualified or unqualified, Assistant required, ineligible or over military age, for permanency. Apply Beale & Son, 3 High Street, South Norwood, S.E. 25 (Phone: Croydon 310).

**LONDON, S.E.**—Wanted (at once), unqualified Assistant with good Dispensing and Counter experience; salary offered £3 per week (outdoors). State full particulars, and when at liberty, to H. W. Neathercoat, 60 Denmark Hill, S.E. 5.

**LONDON, S.W.**—Assistant (unqualified) required for progressive high-class Pharmacy; excellent Dispensing experience essential; permanency. "S. P." (64/132), Office of this Paper.

**LONDON, S.W.**—Wanted (at once), Assistant; lady or gentleman; unqualified or Hall. Full particulars and salary required (outdoors) to Summers, Pharmaceutical Chemist, Streatham Common, S.W. 16.

**LONDON, S.W.**—Lady Assistant required; good handwriting essential. Apply to Plaister & Co., 13 Gladhow Terrace, South Kensington.

**LONDON, S.W.**—Assistant required as Dispenser; accustomed to good-class Dispensing. Apply, giving full particulars, to A. J. B. C. Cooper, Son & Co., Ltd., 80 Gloucester Road, S. Kensington, S.W. 7.

**LONDON, W.**—Evening assistance required for good-class Dispensing for a few weeks from April 2nd; hours from about 5.30 till 8. W. Ive, 221 High Street, Kensington, W. 8.

**LONDON, W.**—Wholesale and Retail.—Junior Assistant wanted (immediately) with good knowledge of Drugs and Chemicals, for putting up orders in Drug department; hours 9 to 6, Saturdays 1 o'clock. Apply, with full particulars, experience, salary required, to Hospitals and General Contracts, Ltd., 19-35 Mortimer Street, W.

**LONDON, W.**—Assistant, with Counter experience, end of March; short hours, no Sunday duty; permanent post; three Assistants kept. Full particulars to E. F. Strickland, 28 The Broadway, Ealing, W. 5.

**LONDON, W.**—Required, a capable, trustworthy Senior Assistant, not under 30, for outdoor permanency; must be of good appearance and address, and a first-rate Counterman; qualification unnecessary provided otherwise competent. W. V. Wright, 25 Broadway, Hammersmith.

**LONDON, W.**—Assistant wanted for evenings and Saturday afternoons; no Sunday duty. Apply the Manager, Heppell & Co., 26 Piccadilly, W. 1.

**LONDON, W.**—Unqualified Assistant Manager required for very large Store business; must have had exceptional experience in quick cash business and be able to produce the highest credentials; permanency and liberal terms offered. "Alpha" (65/17), Office of this Paper.

**LONDON HOSPITAL, WHITECHAPEL, E.**—Clerk for Dispensary wanted; lady (or gentleman if ineligible for military service); knowledge of typewriting and shorthand; good handwriting essential; acquaintance with Drug terms an advantage; suit lady with Apothecaries' Hall certificate; salary £2 2s. weekly; hours 9 till 5. Apply by letter, stating age and full particulars, to the Pharmacist.

**LONDON HOSPITAL, WHITECHAPEL, E. 1.**—Dispenser wanted; lady or gentleman (if ineligible for military service); Minor qualification essential; hours 9 till 5, with occasionally late duty. Apply (personally if possible before 11 a.m.) to the Pharmacist.

**MANCHESTER.**—Vacancy for lady or ineligible man, to take charge of a Light Retail in residential neighbourhood (qualification not essential; no poisons); good business ability and credentials required. Particulars of experience, salary required, and when at liberty, to "Jacobus" (65/40), Office of this Paper.

**MANCHESTER DISTRICT.**—Lady Dispenser required for good-class Retail and Dispensing business; salary according to experience. Apply, stating usual particulars, when at liberty, etc., to T. & W. Woodruff, Pharmacists, Cheadle, Cheshire.

**MANCHESTER.**—Wanted, Assistant, over military age, or exempted from service, for middle-class Cash Retail; outdoors. State age, salary required, and copies of reference to Lockwoods, Ltd., Chemists, Harpurhey, Manchester.

**MANCHESTER.**—Assistant (male) for Dispensing and Counter in working-class district. Particulars and references to H. Bellringer, Great Clowes Street, Lower Broughton.

**MIDLANDS (not far from Birmingham).**—Young lady Assistant required; must have had good Counter experience and be able to Dispense; comfortable and progressive berth. "P. S." (64/136), Office of this Paper.

**NEAR MANCHESTER.**—Lady Assistant required for Retail and Dispensing business; previous Counter experience absolutely necessary. Address, stating age, experience, salary, etc., to 66/29, Office of this Paper.

**PRESTON.**—Unqualified Assistant in good-class business in centre of the town; must be a gentleman ineligible for military service; easy hours, no Sunday or night duty. Applicants should send particulars of experience, stating age and salary desired, to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

**SOUTH OF ENGLAND.**—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

**SOUTH WALES (within 10 miles of Bridgend).**—Qualified Manager (Welshman preferred) for business situated in a colliery district; must be a good Prescriber, and bear unimpeachable character; permanency, with a liberal interest in the profits offered to the right man. "S. W." (64/133), Office of this Paper.

**SOUTHPORT.**—Assistant with good-class Retail and Dispensing experience; trustworthy and reliable; ineligible for military service. Full particulars, including salary, to J. R. Cave, Ltd., 52 Neyll Street, Southport.

**WEYBRIDGE, SURREY.**—Lady Assistant or ineligible man required for high-class Dispensing business. Send full particulars as to age, references, experience, and salary required, E. T. Neathercoat, Pharmaceutical Chemist, Weybridge.

**WORCESTER.**—Qualified Assistant for Dispensing Counter (lady or gentleman); easy hours; no Sunday duty. Please state full particulars, salary (outdoors), to E. J. Kitson, City Drug Stores, Worcester.

**WORCESTER.**—Wanted (immediately), lady Assistant, more especially for Dispensing, with good opportunity to acquire Counter experience; permanency. Apply, stating experience, references, and salary required (outdoors), enclosing photo if convenient, Horniblow & Son, Chemists, 29 Sidbury, Worcester.

**A**n energetic, unqualified man required (immediately); must be a capable and experienced Dispenser, and either rejected or over military age; comfortable, permanent berth, with progressive salary. Apply Manager, The Sloane Pharmacy, Sloane Square, London, S.W. 3.



**ASSISTANT** required; outdoors; gentleman. R. R. Pratt, M.P.S., 94 Canterbury Road, West Kilburn, N.W. 6.

**ASSISTANT**, lady or gentleman, with practical Dispensing knowledge, accustomed to the general business of a good-class Pharmacy, required in about two weeks. Apply, with particulars and salary required, to E. L. Slade, 3 Station Parade, Kew Gardens.

**ASSISTANT** wanted (at once); unqualified; good general knowledge; half-holiday Wednesday, no Sunday duty; outdoors. Davies, Thornton Heath.

**ASSISTANT** required, lady or gentleman, for general Counter, Dispensing, etc.; part or whole time; personal interview early any morning, or appointment on 'phone. Lane & Foot, 195 Seven Sisters Road, Finsbury Park, N. 4. 'Phone: North 1850.

**ASSISTANT**, unqualified, lady or gentleman, required in an Agricultural and Dispensing business; easy hours. Apply, with full particulars of age, experience, and salary required, to Gostling & Co., Diss, Norfolk.

**CHEMIST** and Dentist, doing all Mechanical work on premises, has vacancy for Assistant. Please state full particulars, age, experience, ability in Pharmacy and Dentistry, if any, salary required, when disengaged, references, photo, Foster, "Ivydale," London Road, Portsmouth.

**DISPENSER** (Minor), ineligible, capable and experienced, required at once. Apply Mr. Fleetcroft, Haymarket Stores, 28 Haymarket, S.W.

**DISPENSER** (female, temporary) wanted at Joyce Green Hospital, Dartford, Kent; must be a Licentiate of the Society of Apothecaries, or registered under the Pharmacy Acts (Major or Minor certificate of the Pharmaceutical Society); those holding only the Assistants' certificate of the Society of Apothecaries are not eligible; remuneration three guineas a week; the appointment is resident, and a charge of 13s. 6d. per week will be made in respect of board, lodging, and washing. Apply, in writing, to the Medical Superintendent at the Hospital.

**EVENING** Help wanted; unqualified; Counter and N.H.I. Write or call, Watson, 100 Mitcham Road, Tooting, S.W.

**EVENINGS**, 6.30 to 8.30: Assistant wanted (chiefly Dispensing) for three or four evenings weekly. Apply Foster & Dallas, 1 Lavender Hill, S.W. 11.

**LADY** Assistant wanted for Retail Counter, Window-dressing, etc. Please state experience, references, age, when disengaged, and salary required in first letter, or apply personally, to Bishop & Vincent, 460 Holloway Road, London, N. 7.

**LOCUM** (unqualified) wanted for about a fortnight, to manage a small Drug Store in the North. Apply 61/21, Office of this Paper.

**LOCUM** required for two weeks from March 25th in Poor-Law Infirmary; hours 9.30 to 5, Saturdays 9-1, no Sunday; four guineas weekly, with dinner daily. "R.", 23 Stamford Brook Road, W. 6.

**MESSRS. TIMOTHY WHITE CO., LTD.**, Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

**PART-TIME** Assistant wanted for Wednesday evenings and alternate Sunday evenings. Apply Nunn, Chemist, Clock House, Beckenham.

**PHARMACEUTICAL SCHOOL OF CHEMISTRY**, 67 LOWER MOUNT STREET, DUBLIN.—The School Committee require the services of a Teacher to conduct the Theoretical Chemistry Class. Full particulars from the Registrar, with whom applications should be lodged not later than the 27th instant. Arthur T. Ferrall, Registrar. 14th March, 1918.

**QUALIFIED** young man, single and rejected or discharged, required immediately; permanency, with good prospects of advancement. Please state age, salary required, and when at liberty. "H. L." (64/130), Office of this Paper.

**QUALIFIED** Manager, about 35, of good business capacity and experience, required in first-class business in Southern health resort; short hours. Please give full particulars of experience and state salary required (outdoors); share of profits arranged with a suitable gentleman. Apply 60/10, Office of this Paper.

**QUALIFIED** Manager for country business, West Riding; capable, energetic; comfortable berth; discharged or elderly man; no Sunday duty. Apply, stating terms (outdoors) and references, 67/14, Office of this Paper.

**QUALIFIED** Dispenser wanted for Chemist's shop in country town in North of Scotland (ineligible); wages £4 per week. Apply 27/66, Office of this Paper.

**QUALIFIED** Manager required for South Devon business; exempt from military service. State age, height, experience, references, etc., with salary required (house rent and taxes free), to Holman, Ham & Co., Ltd., Market Street, Exeter.

**SENIOR** Assistant, must be trustworthy and capable, wanted for a good-class Dispensing and Family business in a large country town in Kent. Apply to "National" (60/27), Office of this Paper.

**SMART**, qualified Manager, with view to succession. State salary required and full particulars to Kennedy, 2 Park Road, Liverpool.

**THE LORD DERBY WAR HOSPITAL, WARRINGTON.**—Wanted, temporary Dispenser (female); must be fully qualified; salary 35s. per week. Applications, stating age, experience, qualifications, and references, must be sent to the Administrator.

**WANTED** (immediately), Locum. State age, salary required (outdoors), and give reference, J. B. Davis, Church Hill, Lynton.

**WANTED** (immediately), reliable lady Dispenser (outdoors) in high-class Pharmacy in North London; reasonable hours; 1 o'clock Thursdays and no Sunday duty. Reply, with full particulars, to 65/21, Office of this Paper.

**WANTED**, qualified for good-class Chemist's business; references essential; outdoors; salary £3 15s. Apply 66/7, Office of this Paper.

**WANTED**, Assistant, lady or gentleman, able to Dispense, but principally to help at Counter and put up stock; good-class Family business. Bell, Chemist, 20 Sheep Street, Rugby.

**WANTED**, youth under military age as Junior, or junior ineligible; quick cash trade and N.H.I. Sheard, Pharmacist, Morley.

**WANTED**, Manager, lady or gentleman, not necessarily qualified, to manage small neglected Drug and Mixed business in large village; to live on premises (with or without caretaker) and take a personal interest in reviving the business. State salary required, references, and when at liberty, Greensmith, Chemist, Soham, Cambs.

#### WANTED.

#### QUALIFIED CHEMIST.

#### MALE OR FEMALE.

Large progressive Retail business,  
LONDON.

Permanency to capable applicant.

State salary and experience first letter.  
Box No. 63/33, Office of this Paper.

**WANTED**, elderly qualified Assistant for East-End; easy hours and light duties; salary 50s. weekly. Apply, with reference, "Eastminster" (66/14), Office of this Paper.

**WANTED**, lady Assistant; Dispensing, N.H.I., and Counter. Please send references, experience, and salary required (outdoors) to A. M. Ellison, Chemist, Hoyland Common, West Riding, Yorks.

**YOUNG** lady Assistant required for high-class business situated in Surrey; very comfortable and permanent post; progressive salary; good Dispensing experience essential. "H. S." (64/13), Office of this Paper.

**YOUNG** ladies required for Dispensing Counter work in Clapham and Shepherd's Bush districts; must have good knowledge of printing and developing. Apply personally, or by letter, to Parke's Drug Stores, 65 Harwood Street.

#### WHOLESALE.

**STOKE-ON-TRENT.**—A competent Assistant, lady, or gentleman ineligible, wanted as Second; must have had good training and experience, and good address; outdoors. Also a young lady for putting up Stock, Packing Proprietaries, and Bookkeeping in Wholesale department; give usual particulars and references. Apply Edmund Jones, M.P.S., Miles Eank, Hanley, Stoke-on-Trent.

**ASSISTANT** wanted, with good knowledge of Wet and Dry orders. Apply, with particulars of experience and wages required, to Hospitals and General Contracts, Ltd., 19-35 Mortimer Street, W.

**ASSISTANT PACKER** (ineligible) required in Fulham Hair-dressers' Sundries house; previous experience essential; wages 35s. and war bonus; hours 8-6, Saturdays 1 o'clock; overtime paid. Apply 26/70, Office of this Paper.

**CHECKER** required for Home Despatch Department. Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, City.

**CHECKING** Clerk required for Warehouse (male or female); one used to checking export packing sheets preferred. Burgoyne, Burbridges, East Ham.



**CHEMIST** as Assistant Works Manager; fine Chemicals and Drugs wanted. State fully qualifications, experience, salary required, to 26/63, Office of this Paper.

**CLERK** (female) for Office of Wholesale Druggists; must be a good writer and accurate at figures. Apply, stating age, salary, etc., to "M." (65/7), Office of this Paper.

**DRUGGIST'S SUNDRIES**.—Warehouseman required, with a knowledge of Chemist's and Perfumer's bottles preferred. State experience and wages required, "W. T.", 77 Southwark Street, S.E. 1.

**EMPTY'S** Clerk wanted; one used to Drug trade preferred. Reply by letter to "B. L.", c/o Wright, Layman & Umney, Ltd., 46 Southwark Street, S.E. 1, stating experience. Man over military age preferred.

**EXCELLENT** opening with large Chemical Manufacturers in East London for a well-educated, intelligent business girl; shorthand, typing, quickness at figures, and slight knowledge of French essential; really good prospects for a capable business woman. Apply 27/25, Office of this Paper.

#### PATENT MACHINE DEPARTMENT.

**EXPERIENCED** and intelligent Lady required to take full control in large Departmental Store. Apply, stating full particulars of experience and salary required, to "P. M.," Lewis's, Ltd., Ranelagh Street, Liverpool.

**FIRST-AID APPLIANCES**.—Wanted, energetic young man with experience, to take entire charge of new department. Apply "L." (27/15), Office of this Paper.

**LABORATORY ASSISTANT**.—Man wanted, accustomed to General, Wet and Dry Counter, and with some knowledge of manufacture of Galenicals and Proprietarys; permanent position; work varied and interesting. Apply with full particulars, stating salary required, to General Manager, Hedges (Chemists), Ltd., Dale End, Birmingham.

**MAN**; experienced in manufacture of Toilet Preparations, Face Creams, Pomades, Liquid Shampoo, etc.; good references essential; London. State wages, age, and experience, "L." (23/29), Office of this Paper.

**OPENING** shortly for Manufacturing Chemist; experienced in manufacturing and packing of high-grade Pharmaceuticals and Toilet Preparations on large scale, organisation, and control of staff; permanent position to right man; state age, experience, qualifications, and salary expected; must be exempt from military service; communications strictly confidential. Apply 61/31, Office of this Paper.

**PERFUMERY AND TOILET PREPARATIONS**.—Manager required for small Department and Soapmaking plant; competent to manufacture, also with initiative; permanent and progressive position. Apply "L." (28/7), Office of this Paper.

**REPRESENTATIVE** for Lancashire; Surgical Dressings, Sundries, and Specialities. State age and experience, 26/47, Office of this Paper.

**REPRESENTATIVE** required for provinces, side line, good commission, for a well-known Eau de Cologne; large connection. State fullest particulars and ground covered. Apply 20/24, Office of this Paper.

**TRAVELLERS**, with a connection among Farmers, wanted to carry two good lines; expenses and commission. Apply E. T. Pearson & Co., Ltd., London Road, Mitcham.

**TRAVELLER** wanted by small Wholesale Drug House on commission, to call on Chemists in the Eastern Counties and Midlands. Apply, with particulars as to present engagements, 61/27, Office of this Paper.

**TRAVELLERS** wanted to call on Wholesale Buyers of Heavy Chemicals; salary £2 and commission. Apply "L." (26/33), Office of this Paper.

**TOILET PREPARATIONS, BRILLANTINES, CREAMS, PERFUMES, ETC.**—Practical man required with knowledge of manufacturing these articles; good prospects for energetic and capable man. Write stating experience, and also salary required, to 63/17, Office of this Paper.

**WANTED** for Lancashire Manufacturing Chemists, Laboratory Assistant for making Galenicals, etc.; must be ineligible for Army. State experience, wages required, to 25/64, Office of this Paper.

**WELL-KNOWN** firm, having a well-advertised Proprietary to introduce to Chemists, desire a Representative for Yorkshire (West Riding in particular); commission only 15 per cent. on first order, 10 per cent. on repeats. Apply 64/135, Office of this Paper.

**WHOLESALE**.—Good Stockkeeper required, with good general knowledge of Sundries and Patent Medicines. Apply by letter, giving full particulars of experience, or personally, Staff Manager, Harrods, Ltd., 44 Hans Crescent, S.W.

**YOUNG** lady Invoice Clerk wanted, with knowledge of Drug pricing, for Chemist's office; permanency; hours 9 to 5.30; good references essential. Write "E. H.," Parke's Drug Stores, 65 Harwood Street, N.W. 1.

## SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

**PARIS**.—Capable Assistant, qualified preferred, for high-class Pharmacy; knowledge of French an advantage; no Sunday or night duty; outdoors. Replies, with photograph, experience, and references, to Parilond, 5 Rue de la Paix, Paris.

**SINGAPORE**.—Wanted, qualified Assistant; young, single, ineligible Army; three years' engagement; salary £250, £275, and £300 respectively; passage paid out and home. Further particulars from Downie, 187 Gairbraid Street, Glasgow.

## SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

### [HOME.] RETAIL.

**A** FEW hours daily, South Coast preferred, Unqualified; used to middle-class business; also knowledge of Photography and Optics; age 23; discharged. Apply 66/10, Office of this Paper.

**APPRENTICE TO CHEMIST**.—Wanted, berth for intelligent youth of good appearance; 15; Midlands; passed Preliminary. State whether in- or out-doors, hours, class of business, staff kept, terms, and all particulars, 65/14, Office of this Paper.

**A** S Manager small Drug Store, view purchase; country, unopposed, preferred; Photographer; steady; ineligible; unqualified; references. "Druggist," 90a Pearcroft Road, Leytonstone, London, E. 11.

**ASSISTANT**, unqualified, 33, rejected, married, Counter, Dispensing, Photography, Bookkeeping, Typewriting, desires permanency; at liberty Easter. State salary, 62/30, Office of this Paper.

**ASSISTANT**, qualified, stationed in London, at liberty Saturdays from 3 p.m. and Sundays, wishes to keep in touch with his own trade. Private A. E. Ashworth, No. 099622, The London M.T. Repair Depot, Camberwell.

**ASSISTANT**; unqualified; experienced; ineligible; Lanes of Cheshire area preferred, but not essential. Apply 67/19, Office of this Paper.

**ASSISTANT**; unqualified; outdoors; about 50; smart; experienced; disengaged. L.P.S.I., 69 Sneyton Boulevard, Nottingham.

**BOOKKEEPING** and Accounts; can give afternoons and evenings; well experienced, and good references; terms moderate. Apply "X. Y. Z." (67/8), Office of this Paper.

**BRIGHTON**.—Assistant; 25 years' experience; unqualified. "Referentia" (64/3), Office of this Paper.

**CERTIFICATED** Nurse, trained Dispenser, seeks employment as Dispenser with Doctor. Apply 62/7, Office of this Paper.

**DISENGAGED** 16th, Locum; permanency; good references and experience. "Chemist," 17 Regent Square, W.C.

**DISPENSER**, part Hall, requires post with Chemist, within convenient train distance of Windsor. Miss Donald, 3 St. Mark's Road.

**DISPENSER** (lady) desires post with Doctor or Institution; five years' good experience; used to Surgery. Apply "Rhei" (64/29), Office of this Paper.

**DISPENSER-BOOKKEEPER** requires post (at once); experienced. Miss Vickridge, 33 Madeira Avenue, Worthing.

**J. MILNER**, Chemist, Greenwich, recommends young lady Assistant, who is moving to Newcastle-on-Tyne, and requires a berth with Chemist in that town; good Window-dresser and Counter hand; four years' experience. Miss Jeffries, 35 Horton Street, Lewisham, S.E. 13.

**JUNIOR** Assistant, good Dispenser, requires berth for eight months; age 17 years 5 months; height 6 feet; one year's good reference. Apply 43 High Street, Old Brompton, Chatham.



**LADY Dispenser**, straight from College, part Hall qualified, desires post, Doctor, Institution, or Chemist (no Counter work); London or district preferred. Apply 64/23, Office of this Paper.

**LADY Dispenser (Hall)**, keep books, experienced, good references, wants post. Apply 65/31, Office of this Paper.

**LADY Dispenser**, qualified, two years' experience Doctor and Institution, requires post; seaside or country preferred. J. M. Ross, 111 Truro Road, Wood Green, N. 22.

**LADY Dispenser (Apothecaries' Hall certificate)** desires a post in or near London; had good experience at Hospitals, and can show excellent testimonials. Miss K. Deighton, 63 Wickham Road, Brockley, S.E. 4.

**LADY Dispenser (Hall)**; part-time or easy hours; Chemist, Hospital, or Doctor; South-West London. "E. L.", 109 Streathbourne Road, S.W. 17.

**LADY Dispenser (Hall)**, part-time (no evenings), requires employment in Pharmacy; S.E. London preferred. Apply "D. B.", 19 Oakcroft Road, Blackheath, S.E. 13.

**LADY** requires half-time employment; experienced Counter and Dispensing; West London preferred. "Statim" (67/7), Office of this Paper.

**LIVERPOOL OR MANCHESTER**.—Assistant; unqualified; good Dispensing and Counter experience. Apply 62/24, Office of this Paper.

**LOCUM**; Branch Manager or permanency; middle-aged; unqualified; experienced and reliable; satisfactory references; Home Counties or South Coast preferred. Lobban, 136 Orford Road, Walthamstow, E.

**LOCUM**, or as emergency Assistant; disengaged; ineligible; varied experience; thoroughly trustworthy; single railway fare. Please give particulars, 65/2, Office of this Paper.

**MANAGER**; qualified; elderly; experienced; disengaged. "W.", 4 St. Mary's Street, Wolverhampton.

**MANAGER or Locum**; thoroughly capable; London preferred; unqualified. "E.", 241 Seven Sisters Road, N.

**MANAGER**; Senior; locum; qualified; disengaged; 46; single. Dallas, Bromley House, Fulwood, Preston.

**PART-TIME** engagement wanted; has had two years' good experience; discharged from Army. Apply 67/11, Office of this Paper.

**PHARMACIST**, qualified, over military age, steady, active, first-class experience, seeks position in provinces. Apply 67/28, Office of this Paper.

**QUALIFIED Manager**; 33; married; willing to negotiate for good-class business. Apply 63/36, Office of this Paper.

**QUALIFIED**; 22 years' experience country, West End; Dispensing and Retail; married. "W.", 24 Handsworth Road, Philip Lane, N. 15.

**QUALIFIED**; elderly; single; easy hours; moderate salary (London). Apply 66/1, Office of this Paper.

**UNQUALIFIED Manager or Senior Assistant**; big provincial town or country town only; accustomed to take sole charge; age 47; experienced Dispenser and Counterman (N.H.I.); no Photography or Optics; married; would reside above shop. Herne Williams, o/o C. J. Winter, 24 Bethnal Green Road.

**UNQUALIFIED**; 23; Grade III.; good-class experience; state salary offered and hours; permanency. Apply 64/34, Office of this Paper.

### WHOLESALE.

**COST CLERK**.—Lady requires post in London; Wholesale house or otherwise; good experience; holds the Hall qualification; disengaged shortly. Apply 66/22, Office of this Paper.

**DISCHARGED**, with extensive Retail experience, desires post as Representative, Drugs or Sundries; South or South-East England preferred; tall, well educated, adaptable, and thoroughly reliable. Apply 65/3, Office of this Paper.

**GENTLEMAN**, with exceptional experience and thorough knowledge of the Wholesale Drug Trade, offers his services and financial resources with a view to ultimate Partnership or Directorship; personal experience in all inside departments, including management and finance; brilliant record as Representative, and able to influence business; principals only. Apply 62/22, Office of this Paper.

**GENTLEMAN**, qualified, 45, wishes to represent good house; whole or part-time. Apply 66/15, Office of this Paper.

**MAN**, unqualified, age 49, would like situation with Wholesale Chemist, to assist in getting up orders, or would like to do part travelling; used to the Drug trade; Yorkshire towns preferred. Write, stating wages, etc., to 64/32, Office of this Paper.

**INDOOR or Representative**; London district preferred; advertiser, ineligible, fully competent to undertake either of these positions; undeniable references; well known. Apply "C." (66/18), Office of this Paper.

**LONDON Representative**, over military age, open to take position with good house as Traveller; all-round experience, with qualification; sound connection: "H. B. C.", 9 Askew Mansions, Askew Road, W. 12.

**REPRESENTATIVE**.—A young man offers his services to a good Drug house and packed goods; 14 years' high-class experience in Retail (Ireland preferred). Apply 67/22, Office of this Paper.

**SIDE LINES WANTED**.—Advertiser is open for Packed Goods and Druggist Sundries; big connection. C. Wilson, Dryland House, Buxton.

**UNQUALIFIED**; assist Extractor; Photographic Buyer; married; preferably Wholesale, or Traveller. "Statim," 272a West End Lane, N.W.

**WANTED**, situation in Wholesale Drug Warehouse; many years' experience in the trade; has had entire charge of Patents and Dispatch departments, also accurate checker; well up in Sundries; good Stockkeeper; London or provinces; ineligible. Apply 66/16, Office of this Paper.

## MISCELLANEOUS.

**FOR Sale**, the complete Mahogany Fittings (second-hand) of a modern Chemist Shop, comprising Drawers and Shelves for three sides, Counter, Dispensing Screen, and Entering Desk, etc. Full particulars from George Blake & Co., 37 and 38 Clarendon Street, Oxford.

**FOR Sale**, about 2 cwt. Wheat Dressing, Sulphate of Copper, iron and alum, equal parts; 15s. cwt.; 50 dozen 200 gramme Round Bottles, nearly white, 18s. gross; 1,000 gross Shives, 1/4 by 3/4, 4d. per gross. Extirmo, Ltd., School Street, Hull.

**SHOWCASES AND SHOP FITTINGS**.—Several fine Silent Salesman Showcases and Counters; quantity of useful Shop Fittings; low prices. Write inquiries, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

**SECOND-HAND CHEMISTS' FITTINGS**.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

**COTTON-WOOL**, white, absorbent, interleaved, one pound parcels, 1 cwt. at 2s. 3d. per lb.; 2 cwt., 2s. 2 1/2 d.; 5 cwt., 2s. 2 1/2 d.; carriage paid, cash with order; wrappers charged 3s. 6d. per cwt., and returnable; sample for stamp. J. Mills, Chemist, Platt Bridge, Wigan.

**HIGH-CLASS Soda Water Machine (calliope)**, by Wilcocks; Syphon Filler, by Barnett & Foster; two nearly new Corking Machines under pressure; one turnover Codd Filler; about 150 Wire-bound Cases (as new), filled with 10-oz. Codd Bottles; about 60 cases filled with Corked Soda, and 5-oz. Codd Bottles; about 45 wire-bound cases filled with Syphon; 40 cases of Stone Ginger Bottles; no reasonable offer refused for part or whole. Apply 63/1, Office of this Paper.

## EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6d.

### FOR DISPOSAL.

#### BOOKS AND PERIODICALS.

**BOOK BARGAINS**.—Thorpe's "Dictionary of Applied Chemistry" (1894-5), three large volumes, 3l.; Watts' "Dictionary of Chemistry" (1888-92), three volumes (Vol. IV. missing), 21s.; Pereira's "Materia Medica", three volumes, 15s.; Allen's "Commercial Organic Analysis", Vol. II. (3 parts), Vol. III. (3 parts), and Vol. IV. (1898-9), 21s.; Squire's "Companion", 1894 ed., 3s. 6d.; 1899, 4s.; 1908, 6s.; British Pharmaceutical Codex (1907), 6s.; Pharmacographia, 7s. 6d.; "Progress of Pharmacy", 5s.; Beasley's "Book of Prescriptions" (1892), 3s.; Lucas' "Book of Receipts", 5s.; Ramsay's "Gases of the Atmosphere" (1896), 2s. 6d.; Pharmacopodia, 10s.; "Standard Formulary" (1899), 7s. 6d.; Whitt's "Pharmacy, etc." (1889), 2s., (1903) 3s. 6d.; Menschulkin's "Analytical Chemistry", 5s.; Clowes & Coleman's "Quantitative Analysis" (1895), 2s. 6d.; (1897) 3s. 6d.; (1900) 5s.; "Year Book of Pharmacy", 1870 to 1916 (47 vols.), and two general indexes, 2l. 10s.; "Proceedings of the American Pharmaceutical Association" (corresponding to the "Year-book"), vols. 33-57 (1909), but vol. 55 missing—24 vols., 24s.; "Journal of the Chemical Society", vol. 49 (1886) to vol. 66 (1894), 18s. Ross, 131 North Hill, Highgate, London, N. 6.

#### DRUGS AND CHEMICALS.

**FOR disposal**, one ounce original each Protargol, Xeroform, Argylol, Migraineine; 120 five-grain Veronal Tablets. Apply 64/150, Office of this Paper.



**WHAT Offers?** 8 x 500 Bottles B.W.'s Antipyrine Tablets; 5 gr.; unopened. Proctor, Chemist, Crown Street, Halifax.

**THREE** doz. bottles Saccharine, 330, half-grain; three guineas, by return post. Paynes, Chemists, Maidstone.

**4½ OZ.** Codeina Phos., 135s.; 1 oz. Resorcin, 4s.; 4 oz. Guaiacol Carb., 40s.; 5 oz. Amidopyrin, 25s. Apply 67/23, Office of this Paper.

**CASTOR** Oil, cold drawn white; guaranteed; 32 gross 2 ounce, in long blue bottles; best offers, whole or part. Simons, 9 West Derby Street, Liverpool.

**7 DOZEN** 6 yard Carton Packets of Southall Double Cyanide Gauze, 13s. per dozen; 2 dozen ditto Plain Unmedicated Gauze, 12s. per dozen. S. Barber, Chemist, Arundel.

**ABOUT** 30 oz. genuine Mitcham Ol. Ment. Pip., 6s. per oz.; Bism. Carb., 8 oz.; 6s.; Ferri Quin. Cit., 7 oz., 8s.; Phenacetin, 5jss., 3s. C. Ingleston, 17 Yardley Street, Sheffield.

**SOD.** Acet. Pur., Acid. Gallic., Acid. Tart., Pot. Oxalis Neut., Zinc. Sulphocarb., Rad. Sarsae, Sod. Bichrom., 7 lb. each; Tab. Caffein. Cit., gr. v., 3 lb.; Tab. Phenac. and Quinin. Co., 5 lb. Offers? Callam, East Dulwich.

**MAGNESIUM** Sulphate; finest Continental quality; public analysis 99.47 purity; standard almost unobtainable; 2 cwt. cask free on rail, 50s.; remittance with order. Evans's Drug Stores, City Road, Cardiff.

**8 OZ.** Empl. Bellad. fd. (unopened, 4 oz. Sulfonal, 8 oz. Calcii Lactas; 1 Bayer's Irocoose, 3 oz. Phenolphthalein, 1 oz. Veronal (Bayer), 1 oz. Dermatol, 2 x 1 oz. Quin. Salicyl. (Howard's), 1 oz. Theocin. Sod. Acetate, 60 gr. Quinin. Dihydrochlorate (Merck). Barclay, Cowdenbeath, Fife.

### MISCELLANEOUS.

**FIFTY-ONE** Gallon Varnish and Keplér's Oil Tins for Sale. John Day, Chemist, Dewsbury.

**4 GROSS** genuine Dutch Drops in original case. What offers? Evans's Drug Stores, City Road, Cardiff.

**WATER BED;** nearly new; full size. What offers? Andrews, 137 Stephendale Road, Fulham, London.

**½ LB.** Guaiacol Pur., ½ oz. Atropin, 1 oz. Equisinine, ½ oz. Ethyl Morph. Hydroch.; 50% off Evans or B.D.H.; B.P. 1914 (new), 7s. 6d.; various Medical Books. Williams, 31 Heath Street, Hampstead.

### WANTED.

**WANTED,** Folding Pocket Cameras. Apply 64/15, Office of this Paper.

THE "Veldt" Laboratory, Louth, England,  
are purchasers of surplus Glycerin in large  
or small quantities. Offers invited.

**WANTED,** Hall's Wine and Wincarnis (large sizes). Green & Co., Chemists, Swindon.

**WANTED,** small Folding Camera; also good half-plate set. Clear, Chemist, Leicester.

**WANTED,** Text-Books on Optics and Sight-testing. Offers to McIntosh, 50 Wadsworth Road, Sheffield.

**WANTED,** small Pocket Camera, 2½ x 3½ or smaller, with good lens. Cowland, 32 St. Nicholas Road, Brighton.

**WANTED** for cash, any quantities, Sloan's, Gillette Blades, Sen-Sen, Tooth Brushes. Apply 64/22, Office of this Paper.

**WANTED,** Sodii Hyposulphite; any quantity, 14 lb. to 1 ton. State carriage-paid price, Stead, Duke Street, Brighton.

**WANTED,** refined, edible Cotton-seed Oil, in original casks or otherwise. State lowest to "L." (26/29), Office of this Paper.

**WANTED,** Tooth Brushes; any make; any quantity. Send particulars and lowest price for spot cash to 63/19, Office of this Paper.

**GARDNER'S** Mixer; second-hand; power type; capacity 1 to 2 cwt.; good condition. Full details to "L." (23/27), Office of this Paper.

**WANTED,** Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

**WANTED,** National Cash Register; self-adder; in good condition. State particulars and price. Ridley & Dixons, Ltd., Pack Horse Lane, Carlisle.

**WANTED,** good second-hand Spice and Drug Grinding and Kibbling Mill, suitable for 2 H.P. motor. "Herculoid," 16 Moira Terrace, Cardiff.

**OPTICAL** books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

**JOB** line Tins wanted, suitable for Boot Polish, etc. We are also buyers of Tin Plates, printed or plain. "Brytenup" Polish Works, Marsh Lane, Preston.

**WANTED,** Square or Round Tin Boxes, new or second-hand, for powdered colours; size 1 lb. and upwards; good prices given; cash payment. Williams Bros. & Co., Hounslow.

**WANTED,** one 120-grain Suppository Mould, one 30-grain Wedge-shape Pessary Mould, also Capsule Moulds from 3 min. upwards. "L." (26/14), Office of this Paper.

**WANTED,** Cameras, Developing Tanks, Plates, V.P.K. Films (1s. each offered), Spectacle Lenses, Gold-filled Frames, Gillette Blades. Particulars and prices to Bishop & Vincent, 460 Holloway Road, London, N. 7.

**SHOP** ROUNDS, ETC.—Wanted, for spot cash, about four dozen 20-oz. Shop Rounds, and two dozen 10-oz. ditto; must be in good condition. Also a dozen Ointment Jars for show, and second-hand Suppository Mould. Apply 64/1, Office of this Paper.

## YOUR STOCK OF OLD CAMERAS OR Unsaleable Ones.

**SELL** them to us for cash, also any other unsaleable photographic goods. Why not clear your shelves now to meet the demand? There will never be such an opportunity again.

We buy small lots, single articles, or dealers' entire stocks. We pay highest possible prices, and give

Two-thirds retail price for Vest Pocket Kodaks (R.R. and Anastigmat Models), Watch Pocket Carbines, Nos. 0, 1, and 2 Brownies, Kodak Film Developing Tanks (except V.P.K.), No. 2 Folding Brownies, also Vest Pocket Kodak and No. 2 Brownie Spools.

We'll buy your fine apparatus by Newman & Guardia, Ross, Adams, Zeiss, Goerz, etc., and give very high prices.

All remittances immediately. Goods carriage paid if returned.

Recent testimonials from Chemists, etc.:

EVESHAM. 5/1/18.

"I have yours with cheque £3, and enclose receipt herewith. I consider your dealings exceedingly fair, prompt and satisfactory. It will be a pleasure to recommend friends to you."

E. M. E. Co.

GLASGOW.

"I am in receipt of your letter, for which I thank you. I shall be pleased to accept 10/- for the camera. It is more than I expected to get."

R. H.

LONGTON.

"Many thanks for postal order to hand yesterday. I must say that you have been most courteous and straightforward over this matter; indeed, I cannot conceive of a firm being more straightforward than yourselves."

H. H. E.

HOLLOWAY, N.

"I am in receipt of your letter and cheque, value £5, in payment for camera; and I am greatly obliged by the prompt and liberal treatment I have received in the matter."

C. W.

PURFLEET.

"I am in receipt of your letter of the 31st ult., together with the cheque for £6 10s. enclosed therewith, and for which I am extremely obliged. I should also like to thank you for the promptness and courtesy with which you have handled the transaction."

E. F.

**WATSONS', The Camera House,  
84 High Street, Sheffield.**



## WAR WANTS EXCHANGE.

For the terms upon which announcements are inserted herein see Supplement for December 8, p. xliii.

### WANTED.

"Iodone" (Robin) 66/27

Quassin enules 66/27

Three tons Cotton Wool in 1-lb. rolls (inter-leaved), at 2/2 per lb., in 1-cwt. bales; Three tons White Lint in 1-lb. rolls, at 3/9 per lb., in 1-cwt. bales; Four tons Boracic Lint, in 1-lb. rolls, at 2/8. per lb., in 1-cwt. bales; packing bales 3/- each charged extra. Also supplied in 28-lb. bales of each at 2/3, 3/10, 2/9 respectively; bales 1/- each. Cheque with order.—Apply

**THE PRIMO DRUG CO.,**  
5 Bury New Road. Manchester.

## Saccharin Tablets

( $\frac{1}{2}$  grain 330 in 1 guaranteed).

Packed in Boxes of

1,000	...	...	18/-	per 1,000
5,000	...	...	17/10	" "
10,000	...	...	17/9	" "

SOLD BY WEIGHT.

120/- per pound, in not less than 1 lb. lots  
Cash with Order. Window Slips Free.

**SECOND TO NONE on the Market**  
Special Quotations for large quantities.

Quantity of overstocked Flash Lamp Batteries, guaranteed 4 volts, 8/- per dozen, post paid.

Transparent Hygienic Teats, new, 12/- per gross, post paid; less for quantities.  
Sample for Penny Stamps.

**RICHARD HOULT, 73 Elford Grove, LEEDS**

**ALL CHEMISTS  
SHOULD STOCK**

# ABDINE

**THE GOLD MEDAL FRUIT DRINK.**  
Quick Seller. Big Profits. Over 40 Years' Reputation.  
"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 12d. each; Boxes of 13 Packets, 1/6.  
Wholesale Prices on application. Sample Box 1/6.  
D. McGLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.

## DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.  
3 and 4 ounce. 12 ounce. 6 and 8 ounce.

WHITE PHIALS, plain or teaspoons.  
 $\frac{1}{2}$  ounce. 1 $\frac{1}{2}$  ounce.

Lowest  
Market  
Prices  
Charged.

BLUE LOTION BOTTLES, all sizes.  
CORKS. Superior Quality. No advance in price.  
6 and 8 ounce ... 1s. per gross, in 6 gross bags.  
Vials ... 10d. per gross, in 3 gross bags.  
Delivered free within 7 miles, and to certain stations. Particulars on application.

**I. ISAACS & CO., Glass Bottle Manufacturers,**

106 Midland Road, St. Pancras, London, N.W. 1,

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Orders sent to either establishment have attention.

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to be made in the Photographic Department of your business, but the Developing, &c., must be WELL and QUICKLY done. We are experts, and return all work promptly. We pay return postage on all orders of 2/- or over. Send for our list and give us a trial.

**STEAD & CO.,** Photographic Experts, Duke St., BRIGHTON.

## TEA SWEETENERS

One equal to a  
teaspoonful of Sugar.

14/- per 1000—Sell at 4 for 1d.—50% profit.  
Also in 6d. and 1/- boxes.

## SACCHARINE TABLETS

Guaranteed 50%  
of .330 Saccharine.

17/3 per 1000, 120/- per lb.

Only terms, Cash with Order, Carriage Paid.

**A. S. PRICE & Co. Ltd.,** Blackheath, Birmingham.

## Developing. Printing. Enlarging

Developing Spools, 6 Ex., 6d.; 12 Ex., 1/-; V.P.K., 6d.  
Prints up to and including 2-plate 1d. each.

ENLARGEMENTS. LIST FREE.

Prompt dispatch. Trade discount, 25 per cent.  
Postage extra.

**MARTIN, Chemist, SOUTHAMPTON.**

**HOLMIER BRAND** (Reg. Trade Mark)

## COMPOUND SACCHARIN TABLETS

One is equal to a teaspoonful of sugar.

14/- per 1,000. 13/6 per 10,000 lots. 13/9 per 5,000.

Cash with order. Reg. post paid.

**MEYER, Chemists, Gravelly Hill, Birmingham.**

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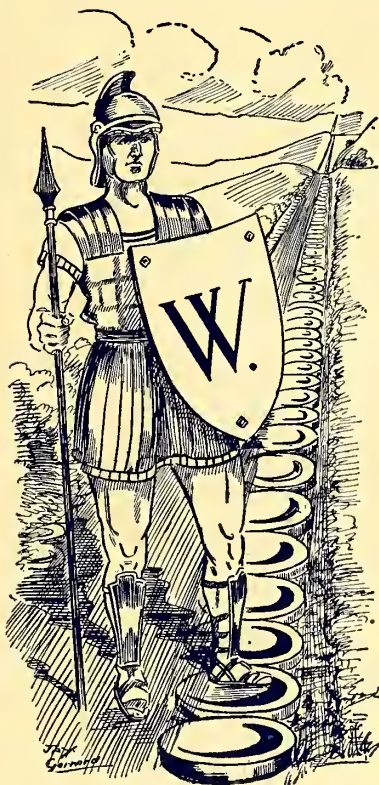
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**DETACHED CARBOLIC CRYSTALS, 40/42°C.**  
(absolute Phenol)

All qualities of CRESYLIC ACID, etc.  
ORTHO, META, and PARA CRESOLS, etc.  
GLAUBER SALTS, R.P., and COMMERCIAL  
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**QUALITY—THE SURE  
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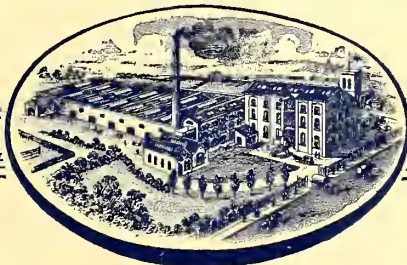
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All the constituents of Wigglesworth Specialities are rigorously tested before use. That's why waste is reduced to a minimum; and a bad stock of Wigglesworth goods is a *rara avis* indeed.

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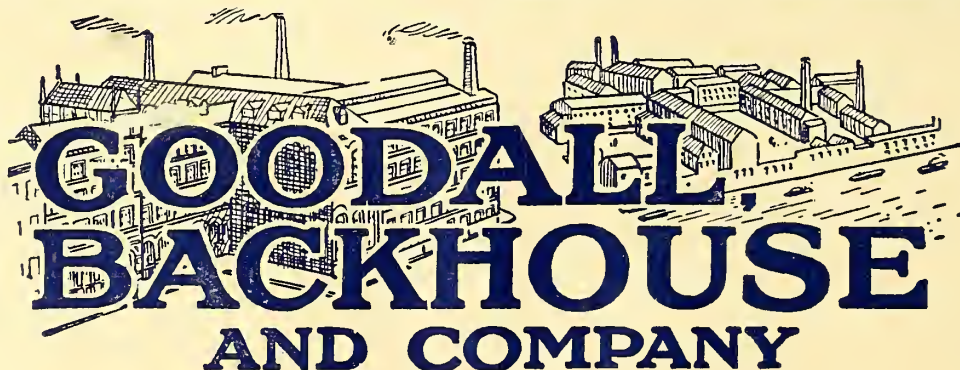
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